

Access DB# 130197

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: David Jones Examiner #: 79973 Date: 8/18/04
Art Unit: 2622 Phone Number 305-4675 Serial Number: 09730217
Mail Box Location: PK1 4E10 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: method for recording a digital image and information
Inventors (please provide full names): pertaining to such image on an oriented polymer medium
wexler, Bourdelleis, Spaulding, Bryant, Summers

Earliest Priority Filing Date: 12-05-2001

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Claim 9^d
45 e¹ f

embeds in image
color sampt of printer
adjust image req. color
difference in color req.
between printer
printer requirements

Kodak

STAFF USE ONLY

Searcher: Pamela Reynolds
Searcher Phone #: 306-0255
Searcher Location: PK2303
Date Searcher Picked Up: 8-20-04 2nd
Date Completed: 8-20-04 4th
Searcher Prep & Review Time: 30
Clerical Prep Time: 90
Online Time: 90

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) _____
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File 248:PIRA 1975-2004/Aug W2
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Set	Items	Description
S1	188458	(COLOR? OR COLOUR?) AND (PARAMETER? OR GAMUT? OR VALUE?? OR ATTRIBUTE?? OR REQUIRE?)
S2	45918	(ADJUST OR CHANG? OR MODIF? OR ALTER? OR ADAPT?) AND S1
S3	45307	S1 AND (DIFFERENCE? OR DIFFERENT OR RESIDUAL).
S4	3594833	IMAGE?? OR GRAPHIC?? OR PICTURE? OR PHOTO OR PHOTOS OR PHOTOGRAPH?
S5	316733	PRINTER?? OR PRINTING
S6	29294	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) AND S1
S7	14832	WATERMARK? OR WATER()MARK?
S8	1700	(STORE OR STORING OR SAVING OR KEEP?) AND (S2 OR S3)
S9	9719	(EXTENDED OR LIMITED) AND S1
S10	4014	AU=(WEXLER, R? OR BOURDELAIS, R? OR SPAULDING, K? OR BRYAN T, R? OR SUMMERS, D? OR WEXLER R? OR BOURDELAIS R? OR SPAULDING K? OR BRYANT R? OR SUMMERS D?)
S11	1122	S4 AND S5 AND S6
S12	22	S11 AND S7
S13	18	S12 AND PY=2001:2004
S14	4	S12 NOT S13
S15	4	RD S14 (unique items)
S16	98	S8 AND S4 AND S5
S17	16	S16 AND (INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING)

S18	12	S17 NOT S12
S19	4	S18 AND PY=2001:2004
S20	8	S18 NOT S19
S21	8	RD S20 (unique items)
S22	597	(S10 OR KODAK) AND S1
S23	165	S22 AND S4 AND S5
S24	13	S23 AND (EXTENDED OR LIMITED)
S25	13	S24 NOT (S17 OR S12)
S26	11	RD S25 (unique items)
S27	95	S8 AND S9
S28	5	S27 AND S5
S29	5	S28 NOT (S24 OR S17 OR S12)
S30	5	RD S29 (unique items)
S31	2608	S3 AND (INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? - OR INTEGRAT? OR ADD OR ADDED OR ADDING) AND S4
S32	120	S31 AND (STORE OR STORING OR SAVING OR KEEP?)
S33	1	S32 AND S7
S34	1	S33 NOT (S28 OR S24 OR S17 OR S12)
S35	115	S32 NOT (S34 OR S28 OR S24 OR S17 OR S12)
S36	44	S35 AND PY=2001:2004
S37	71	S35 NOT S36
S38	53	RD S37 (unique items)

15/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6028672 INSPEC Abstract Number: B9811-6140C-005, C9811-5260B-008

Title: Digital protection in a digital age

Author(s): Plimmer, J.J.

Author Affiliation: Label & Tag Security Int., Tamworth, UK

Journal: Proceedings of the SPIE - The International Society for Optical Engineering
Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.3314 p.132-9

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1998 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1998)3314L:132:DPD;1-G

Material Identity Number: C574-98101

U.S. Copyright Clearance Center Code: 0277-786X/98/\$10.00

Conference Title: Optical Security and Counterfeit Deterrence Techniques

II

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 28-30 Jan. 1998 Conference Location: San Jose, CA, USA

Language: English

Subfile: B C

Copyright 1998, IEE

Abstract: Non-Impact **printing** is now widely used for most computer hard copy output applications. In the area of...

... this manner. Because of the ease with which alteration and replication can occur on high **value** documents, users have to protect material using costly lamination processes or look for other ways of securing the **images** created. Methods of digital protection have been developed that enable **images** to be protected by **embedded** digital fingerprints that are unique and hidden within the **image** itself. The applications of such devices are widespread and they can also be used as...

... detect the authenticity of products through covert protection on labels and packaging printed by digital, **colour** non-impact **printers** such as Indigo & Xeikon. This paper will review some of the products offered and how...

... applied as practical solutions to the problems faced. Also highlighted will be the expected performance **requirements** of such systems and how they compare with alternative solutions such as 2D bar **codes**, **image** scarring and secondary **encoding** routines.

Descriptors: bar **codes**; ...

...document **image** processing...

... **image** coding

...Identifiers: **embedded** digital fingerprints...

...performance **requirements**; ...

...nonimpact **printing**; ...

...digital **watermarking**; ...

...bar **codes**; ...

... **image** scarring

15/3,K/2 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01840625 ORDER NO: AADAA-I3018219
Color **transforms, halftoning, and watermarking**
Author: Kacker, Dhiraj
Degree: Ph.D.
Year: 2000
Corporate Source/Institution: Purdue University (0183)
Source: VOLUME 62/06-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 2868. 88 PAGES
ISBN: 0-493-29045-1

Color **transforms, halftoning, and watermarking**

A number of different issues related to desktop **printing** applications were investigated. The research included developing novel approaches to high resolution **printing** using physics based models for the underlying **printing** process; and using classical communications and signal processing techniques to develop a **watermarking** algorithm for hardcopy imaging.

A wavelet decomposition based surface compression technique to represent the forward transformation for a **color printer** was proposed. The results were compared with Sequential Linear Interpolation.

A new method for design...

...halftones that do not have any periodicity in them. The screens also have lower memory **requirements** than conventional 128 x 128 screens.

A novel halftoning approach that has **embedded** in it a model for the electrophotographic process was proposed. Models for the laser beam, exposure of the organic **photo**-conductor, and the resulting absorptance on the paper are **embedded** into the DBS halftoning algorithm. The algorithm is applicable to any arbitrary pixel modulation scheme...

...proposed. The algorithm is a two step process: in the first step the spread spectrum **watermark** is designed using DBS in a block based **image** adaptive manner. In the second step, DBS is used to design a halftone that **jointly** optimizes a human visual system based error metric and correlation **watermark** detector output.

15/3,K/3 (Item 1 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00451866 Pira Acc. Num.: 20055970

Title: In need of protection?

Authors: Hunt B

Source: Labels Labelling vol. 18, no. 2, Mar.-Apr. 1996, pp 34-36, 38,
40

ISSN: 0143-2192

Publication Year: 1996

Document Type: Journal Article

Language: English

Abstract: The latest crime-busting measures, discussed at a recent product and **image** security conference, are presented. Organised global

crime, involving counterfeiting, fraud, theft and tampering, **requires** addressing for goods, packaging, and labels. The technology is available. Tags bearing electronic data, using open architecture, could replace bar **codes** for industrial supply chains. DOVIDS, Diffractive Optically Variable **Image** Devices, have anti-counterfeiting applications. They are hot stamping foils or laminates, applied to packaging...

... Machine-readable labels do not needing special devices, are and identifiable by dealers and customers. Security **printing** developments include a base paper with **embedded colour**, impossible to copy or scan, and **water marks** in plastic substrates. The Snowflake 2D bar **code** overcomes conventional bar **code** limitations. (2 fig)

...Descriptors: SECURITY **PRINTING** ;

15/3,K/4 (Item 2 from file: 248)
DIALOG(R) File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00428254 Pira Acc. Num.: 20041132

Title: COURIER CELEBRATES ITS TENTH YEAR

Authors: Anon

Source: Br. Printer vol. 108, no. 9, Sept. 1995, p. 31 (K, P)

ISSN: 0007-1684

Publication Year: 1995

Document Type: Journal Article

Language: English

...Abstract: and development in the mid 1980s targeted a new range of papers to meet the **requirements** of increasingly popular modern office machines. Initially **colour coded**, the range comprised separate grades for typewriters, copiers, and **printers**, all **watermarked**. Worldwide business paper leaders, Conqueror and Connoisseur, are included. Poor market impact resulted in changes to the labelling. By 1990, superb compatibility with ink jet and laser **printers** helped ensure their lead over competitors. Extra smooth SuperWove, recycled, boards, and heavyweights were introduced...

... followed, with applications including letterheads, mailers, leaflets, and documents. The boffin theme highlighted Arjo Wiggins' **image**. Moisture proof packaging ensures good printability. (2 fig) (Short article)

...Descriptors: **PRINTING PAPER**...

... **WATERMARK**

?

21/3,K/1 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

03230493 JICST ACCESSION NUMBER: 97A0616968 FILE SEGMENT: JICST-E

Trial Manufacturing of KASURI Textile with Inkjetprint System.

SAITO HIROSHI (1); TERAJIMA SEISHIRO (1); ABE KAZUO (1)

(1) Yamagata Res. Inst. of Technol.

Yamagataken Kogyo Gijutsu Senta Hokoku(Reports of Yamagata Research

Institute of Technology), 1997, NO.28(1996), PAGE.21-25, FIG.7, TBL.4,
REF.3

JOURNAL NUMBER: F0568ABF ISSN NO: 0286-813X

UNIVERSAL DECIMAL CLASSIFICATION: 677.027.4/.5

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: patterns by an ink jet print system, by which splashed pattern fabrics with high additional **value** and high quality were trial manufactured. This system is composed of an ink jet **printer** and **image** processing unit, by which direct **printing** of stretched threads and weaving are performed at the same time. Original **picture** design is prepared by **photographs** or printed matters in a personal computer by an **image** scanner or drawing with **graphic** software. This direct thread dyeing of the computer design offers : 1) No limitation in **color** number and pattern design, 2) labor **saving** in pattern making and 3) creation of work difficult manually.

DESCRIPTORS: jet **printer** ; ...

...ink jet **printing** ; ...

... **printing** (textile...

...labor **saving** ; ...

...computer **graphics** ; ...

... **value** **added** ; ...

... **image** processing system

BROADER DESCRIPTORS: non-impact **printer** ; ...

... **printer** ; ...

... **printing** (**graphic** arts...

... **modification** ; ...

... **image** technology

21/3,K/2 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01441881 JICST ACCESSION NUMBER: 91A0660890 FILE SEGMENT: JICST-E

Special issue : Present state of packages of hair care commodities.

**From "Bath Bon" to "Color Rinse" ; The concept of shampoo and rinse
conceived by the Fine Toiletry Division of Shiseido Co., Ltd.**

Shiseido Co., Ltd.

Pakkejingu, 1991, NO.408, PAGE.30-42, FIG.7
JOURNAL NUMBER: G0367AAW
UNIVERSAL DECIMAL CLASSIFICATION: 621.798.1/.2
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

Special issue : Present state of packages of hair care commodities.

From "Bath Bon" to "Color Rinse" ; The concept of shampoo and rinse conceived by the Fine Toiletry Division of Shiseido...

ABSTRACT: The **difference** between the Fine Toiletry Division and the all sales market is explained.. The transition of...

...and "Hair Make" with a large logotype which attracted attention in stores with its white **color** package are also explained.

...DESCRIPTORS: screen **printing** (**graphic** arts...

... **value** added ;

...BROADER DESCRIPTORS: retail **store** ; ...

... **printing** (**graphic** arts

21/3,K/3 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2004 The HW Wilson Co. All rts. reserv.

1747276 H.W. WILSON RECORD NUMBER: BAST85006170

Samna Word III

Rabinovitz, Rubin;

Byte v. 9 (Nov. '84) p. 319-22+

DOCUMENT TYPE: Product Evaluation ISSN: 0360-5280

ABSTRACT: Samna Word III offers even more features than a dedicated word processor. It **requires** 256K bytes but will run better with 320K. Cursor control key assignments are especially efficient...

...program has all the normal functions plus advanced ones--windows, automatic update to disk, automatic **merge** , foreign-language key assignment capability, a spelling checker, a math mode with four operations, macro keystroke **saving** , a glossary function, index and table of contents compiling capability, outline generation, and a line **graphics** capability that needs neither **graphics** card nor dot-matrix **printer** . Samna Word III's most serious shortcoming is its slowness, especially with a **color graphics adapter** . Serious writers may find that it is well worth \$550.

21/3,K/4 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.
(c) 2003 EBSCO Pub. All rts. reserv.

00390456 95ND07-002

Extensis PageTools gives PageMaker a facelift

Fluckinger, Don

National Association of Desktop Publishers Journal , July 1, 1995 , v7

n7 p22, 1 Page(s)

ISSN: 0897-6503

Company Name: Extensis

Product Name: PageTools

Presents a favorable review of PageTools (\$129), an **add -on** program to Adobe Systems' PageMaker, from Extensis (800). **Requires** IBM PC compatibles with Windows, or the Macintosh, and PageMaker. Indicates that PageTools provides a...

... installs the PageBar toolbar that enables the feature and location of each button to be **changed**, and its PagePreview browser shows the first five pages of any PageMaker document. Other features include PageColors for **changing colors**; PagePrinter for **keeping** track of pages sent to the **printer**; PageMover for moving items to another page; and the PageAlign and PageGuides formatting tools. Concludes that PageTools makes PageMaker a more user-friendly program. Includes two screen displays and one **photo**. (jo)

Descriptors: Desktop Publishing; Software Review; Window Software;
Add -on; Utility Program

21/3,K/5 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00300012 93BO01-003

Kid Works 2

Troutner, Joanne

Booklist; including Reference Books Bulletin, January 1, 1993, v89 n9 p819, 1 Page(s)

ISSN: 0006-7385

Company Name: Davidson & Associates

Product Name: Kid Works 2

Presents a favorable review of Kid Works 2 (\$59.95), **integrated** software for ages 4 to 10, from Davidson & Associates of Torrance, CA. **Requires** a Macintosh with 2MB of RAM, System 6.0.8 or higher, and a **printer**. Says that it includes an easy-to-use word processor, a full-function paint program, and recording features; the word processor allows for large-type display; words can be **changed** to icons in a story; user-created **pictures** can be **added**; the paint program features **picture** stamps and multiple **coloring** -book illustrations; text and recorded messages can be **added** to a **picture**; it allows **pictures** to be imported; and pronunciation can be adjusted; but extra steps are **required** to **store** or retrieve a creation, a drawback in classrooms. (jb)

Descriptors: **Integrated** Software; Writing; Elementary Education;
Software Review; Drawing; Sound

21/3,K/6 (Item 3 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 EBSCO Pub. All rts. reserv.

00236476 91MU03-013

Screenshot

Linzmayr, Owen W

MacUser, March 1, 1991, v7 n3 p90, 1 Pages

ISSN: 0884-0997

...it captures selected items it captures nothing else, so no cleanup of unwanted pixels is **required**. Captured items can be pasted into the Clipboard, placed in the Scrapbook, save to disk in PICT, paint, or

Startup-Screen format, or sent directly to a **printer**. The program can also convert **color images** (up to 24-bit) to black and white on the fly, allows specifying name and disk location of captured **images**, automatically time stamp and **add** the name of the active program below the **image**, show or hide the cursor in the **image**, capture multiple **images** by **keeping** the Screenshot window open, and **change** the size of **images** at the time of capture. The program is 'worth every penny.' (djd)

Descriptors: **Image Processing; Graphics ; Utility Program;**
Software Review

21/3,K/7 (Item 1 from file: 248)
DIALOG(R) File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00377904 Pira Acc. Num.: 20000739

Title: TELECOM SERVICES FOR PREPRESS

Authors: Cowen J

Source: Paper presented at IPEX 93 Preview Conference held 28-29 Apr. 1993 at Birmingham, UK, pp 135-138 [Stafford, UK: Exmaco, 1993, 188pp (655.1:681.6) (1050)]

Publication Year: 1993

Document Type: Conference Publication

Language: English

Abstract: The digital revolution has brought publishers and **printers** together with British Telecom at a technical level, disseminating information in a global market place. BT will supply the network services to support publishing's voice and data communications **requirements**, in prepress and remote **printing**. Telecom is well established in providing links between newspaper editorial departments and remote **printing** sites, often via satellite. Prepress **requirements** are **different** and unique. Modems are too slow for transmitting several **colour images**. **Integrated Services Digital Network** is a high capacity dial up network transmitting prepress and data files, including voice, between diverse sites, at 1Mb per minute. Light and heavy traffic is accommodated. **Saving** significant time and money, it can be used to transmit in-house or overseas, with...

21/3,K/8 (Item 2 from file: 248)
DIALOG(R) File 248:PIRA
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00234514 Pira Acc. Num.: 10087042 Pira Abstract Numbers: 08-91-PT03476

Title: A STROKE OF GENIUS

Authors: Taylor L

Source: Print. Ind. vol. 90, no. 5, June 1991, pp 136-138

ISSN: 0307-7195

Publication Year: 1991

Document Type: Journal Article

Language: English

Abstract: **Changes** in labelling, particularly in the food industry, in the UK and throughout Europe are putting new demands on the label manufacturers. Label design commonly has to include bar **codes**, date **codes**, eight- **colour graphics**, 'use-by' information, etc. A range of equipment, especially self-adhesive roll label **printers**, is available to **keep** up with manufacturer's **requirements**, and some are discussed briefly. These include: the SATO M34 series of desktop barcode label **printers**, from Norprint International Ltd; a range of roll label presses

from Gallus; and the R250...
Descriptors: BAR CODE ; ...

... CODE ; ...

... GRAPHICS ; ...

... LABEL PRINTING ; ...

... PRINTER ;

?

26/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6461838

Title: Digital working provides the proof [digital proofing]

Author(s): Holland, C.

Journal: British Printer vol.112, no.12 p.10-12

Publisher: Miller Freeman,

Publication Date: Dec. 1999 Country of Publication: UK

CODEN: BRPRAK ISSN: 0007-1684

SICI: 0007-1684(199912)112:12L:10:DWPP;1-A

Material Identity Number: A720-1999-012

Language: English

Subfile: D

Copyright 2000, IEE

...Abstract: version of its Digital Cromalin software will support proofing. Hexachrome jobs when used with the **extended colour gamut** B2 AX4 GE machine as well as Pantone tints and solids. It also has the ability to proof non-CMYK **colours** as specials from Scitex's Brisque front end system. The manufacturers of the halftone thermal laser systems have also taken note of the need for special **colours** and a wider range of substrates. For example, Polaroid **Graphics** 'PolaProof' which has been able to handle a range of Pantone-licensed special **colours** as well as metallic gold and silver for a while, now has an opaque white...

... range of materials including poly films and packaging board, as well as having a six- **colour** Pantone Hexachrome ink set. It is also understood that special **colour** capabilities for **Kodak** 's Approval system are in the final stages of commercialisation. These are being achieved in two ways, the first being a software solution which also enables **colours** to be exaggerated and duotones to be created. The second is through the use of...

... donor sheets, the first one of which is a metallic based film for reproducing different **coloured** metallics. In fact, we can expect to see more activity at this end of the...

Descriptors: **printing** ; ...

... **printing** industry

...Identifiers: special **colours** ; ...

...Polaroid **Graphics** PolaProof...

... **Kodak** Approval system...

... **coloured** metallics

26/3,K/2 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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06759996 E.I. No: EIP04128064090

Title: Computational Accuracy of RGB Encoding Standards

Author: Kang, Henry R.

Corporate Source: Peerless Systems Corporation, El Segundo, CA, United States

Conference Title: IS and T's NIP16: International Conference on Digital Printing Technologies

Conference Location: Vancouver, BC, Canada Conference Date:
20001015-20001020

E.I. Conference No.: 62372

Source: International Conference on Digital Printing Technologies 2000.

Publication Year: 2000

Language: English

...Abstract: paper, we reported the computational accuracy of various RGB encoding standards using a set of **color** patches printed by an inkjet **printer**. These patches were measured in CIELAB under D/6/5 illuminant. The **color** spaces under study were Adobe RGB98, Bruce RGB, an **extended** RGB, CIE 1931 RGB, CIE 1964 RGB, a proposed inkjet RGB, **Kodak** RIMM/ROMM RGB, a proposed Laser RGB, NTSC RGB, Photoshop wide **gamut** RGB, sRGB, sRGB64, and SMPTE RGB. The computational path was from L*, a*, and b... CIEXYZ to a specified RGB space followed the definition of that space. The resulting RGB **values** were scaled to integers in various bit-depth. For comparison purpose, the scaled integer RGB **values** were converted back to CIELAB. The **color** difference between measured and reversed CIELAB **values** was used as the measure for computational accuracy. From this exercise, we were able to...

...causes of the computational error. The remedies to the problem were recommended and preferred RGB **color** spaces were suggested. 17 Refs.

Descriptors: **Image** coding; Standards; **Color** **image** processing; **Colorimeters**; Matrix algebra; Vectors

Identifiers: **Color** **gamut**; Inkjet **printers**

26/3,K/3 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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05448753

Smile for the Computer

US - DIGITAL **PHOTOGRAPHY** AND DIGITAL CAMERAS
Byte (BYE) 0 November 1992 p139-144
ISSN: 0360-5280

US - DIGITAL **PHOTOGRAPHY** AND DIGITAL CAMERAS

US: The advantages of digital **photography** include the ability to insert **images** in desktop publishing documents, edit **photo** **images** easily and mail **images** on disk. An **extended** article by Philip Chien, aerospace and microcomputer consultant, discusses digital **photography** and digital cameras. Digital **photographs** can be distributed more quickly, as well as more cheaply, than film or **photographs**, and are also highly suitable for developing an **image** library. The PhotoCD service offered by **Kodak** (Rochester, NY) enables users to have their slide film developed and, for an additional fee...

... onto a CD-ROM. At present, PhotoCDs are not compatible with existing CD drives. Digital **photographs** can be transmitted to individual locations by modem or mass-distributed using broadcast techniques. The...

... video and true digital cameras, both of which use CCDs (charge-coupled devices) to collect **images**, before discussing the points that should be considered when selecting a digital camera. The most important criterion in this selection is whether **colour** is **required**. Monochrome cameras can produce finer resolutions as well as working better in less light. In cases where the use of black and white **images** is the primary application, a typical office laser **printer** can be used to create output of excellent

quality. Accurate colours can only be reproduced on very high-end colour printers .

26/3,K/4 (Item 1 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00624979 Pira Acc. Num.: 40039724

Title: Method for Recording a Digital Image and Information Pertaining to such Image on an Oriented Polymer Medium

Authors: Bourdelais R P ; Spaulding K E ; Bryant R C ; Summers D D ; Wexler R M

Patent Assignee: Eastman Kodak Co

Patent Number: EP 1213613 Patent Date: 020612

Application number: US 730217 Application Date: 001205

Publication Year: 2002

Document Type: Patent

Language: English

Title: Method for Recording a Digital Image and Information Pertaining to such Image on an Oriented Polymer Medium

Authors: Bourdelais R P ; Spaulding K E ; Bryant R C ; Summers D D ; Wexler R M

Abstract: A method is described for representing an extended colour gamut digital image on a hard-copy output having a limited colour gamut . The colour values of the extended colour gamut digital image are adjusted to fit within the limited colour gamut of the output and a print formed. A residual image representing a difference between the extended colour gamut digital image and the limited colour gamut digital image is determined, which is then digitally encoded on the print to form a reconstructed extended colour gamut digital image .

Descriptors: Digital imaging - Printing ; ...

... Printing - Techniques

Section Headings: ELECTRONIC IMAGING INCLUDING DIGITAL IMAGING (6042);
PROCESSING EQUIPMENT - PRINTING AND HARDCOPY OUTPUT (6016)

26/3,K/5 (Item 2 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00555251 Pira Acc. Num.: 20155676

Title: The next proofers

Authors: Alonso M R

Source: Print. Impress. vol. 42, no. 6, Nov. 1999, pp 52, 54, 56

ISSN: 0032-860X

Publication Year: 1999

Document Type: Journal Article

Language: English

Abstract: Expanded colour gamuts , strategic digital halftone proofing launches, imposition proofers and multi-setting thermal devices all highlighted the...

... a new breed of contract proof; Fujifilm's digital halftone device, the Luxel FinalProof 5600; Kodak Polychrome Graphics ' new Recipe Colors software; Polaroid's new Extended Range Proofing Process (the latest in

its PolarProof devices); Optronics' new Aurora multisetter; and Agfa...
Descriptors: COLOUR GAMUT ; ...

...DIGITAL PRINTING ;

26/3,K/6 (Item 3 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00541538 Pira Acc. Num.: 20142731
Title: Kodak upgrades large format printers
Authors: Anon
Source: Image Magazine vol. 11, no. 3, 1999, p. 22
Publication Year: 1999
Document Type: Journal Article
Language: English

Title: Kodak upgrades large format printers
Abstract: Kodak's professional 2042 and 2060 large format printers have been upgraded. New features include an extra wide colour gamut of improved pigmented inks and dye based inks for indoor and outdoor applications, increased media portfolio, and an upgraded raster image processor (RIP) with Kodak ColorFlow management tools for colour accuracy and consistency. Colourogate software is also available. In addition, the printers have four different print modes, ink reservoirs extended to 500ml, a take-up roller and a printer dryer system. (4 fig)
Company Names: Kodak
...Descriptors: PRINTER
Section Headings: Non-Impact Printing (8360)

26/3,K/7 (Item 4 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00421732 Pira Acc. Num.: 40002816
Title: COLOUR SCIENCE IN PHOTOGRAPHY
Authors: Attridge G G; Pointer M R
Source: J. Photogr. Sci. vol. 42, no. 6, 1994, pp 197-209
ISSN: 0022-3638
Publication Year: 1994
Document Type: Journal Article
Language: English

Title: COLOUR SCIENCE IN PHOTOGRAPHY
Abstract: The relationship of colour science to photographic systems is reviewed. The advantages of subtractive over additive colour reproduction are given, namely the brightness of the image and the ability to have coloured masks in a negative to partially overcome the problems of imperfect dyes. A number of different colour photographic processes are outlined including silver dye bleach, conventional chromogenic development and dye diffusion. The processes of colour vision are also outlined and the colour gamuts of the various photographic systems discussed with particular reference to the negative-positive printing onto paper. Colour Reproduction Index (CRI) gives a measure of acceptability of images formed by different imaging systems. 63 refs.
...Company Names: KODAK LIMITED
Descriptors: Colour photography - Processes...

... **Image** properties - Quality
Section Headings: **COLOUR PHOTOGRAPHY** - GENERAL (6059); PROPERTIES OF
THE DEVELOPED **IMAGE** - **IMAGE** QUALITY (6029); PROCESSING - DEVELOPMENT'
(6007)

26/3,K/8 (Item 5 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00380119 Pira Acc. Num.: 20003005

Title: LATEST CMS SOLUTIONS HELP PREVENT COLOR NIGHTMARES

Authors: Fraser B

Source: MacWEEK vol. 7, no. 41, 18 Oct. 1993, pp 26-27

ISSN: 0892-8118

Publication Year: 1993

Document Type: Journal Article

Language: English

Title: LATEST CMS SOLUTIONS HELP PREVENT COLOR NIGHTMARES

Abstract: Different aspects of the process affect the final **colour** output of **colour** management systems. Device-independent **colour** is **required**. Larger companies such as Adobe Systems Inc. and Agfa base their **colour** model on the Commission Internationale de L'Eclairage (CIE) XYZ **colour** space devised in the 1930s which represents **colour** as experienced by the human eye. Apple's **ColorSync** has fallen short of its promises in a number of areas. There is a lack of **printer**-driver-level support and the transformation engine is slow. Profiles are **limited** to eight **values**. EFI has attempted to address these faults but EfiColor has not been available as a stand-alone product. **Kodak**'s Precision **Color** is also **limited** in that application support is **limited** to applications using Photoshop plug-in modules. Agfa's Fotoflow suite of products uses sophisticated...

... characterisation tools. Output profiles can be used with any correctly linearised imagesetter. Pantone's Open **Color** Environment is a serious contender in view of the company's **colour** management experience. Device profiles are to be distributed to existing software and hardware licensees. In PostScript Level 2, Adobe has made the output device responsible for performing **colour** transformations. (2 fig)

...Company Names: **KODAK** ;

Trade Names: **COLORSYNC** ; ...

...OPEN **COLOUR** ENVIRONMENT...

...PRECISION **COLOR**

Descriptors: **COLOUR** MANAGEMENT SYSTEM...

... **COLOUR** REPRODUCTION

Section Headings: **Graphic** Reproduction (8230)

26/3,K/9 (Item 6 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00234158 Pira Acc. Num.: 10086686 Pira Abstract Numbers: 08-91-PT03460

Title: DIGITAL AND CONVENTIONAL PROOFING IN FLEXOGRAPHY

Authors: Scott-Taggart M

Source: Paper presented at Second International Flexographic Conference

held 23-24 April, 1991, at Birmingham, UK, 9pp [Leatherhead, UK: Pira International, 1991, 3 vols, #90.00, (PIT IC8:91)(8782)

Publication Year: 1991

Document Type: Conference Publication

Language: English

Abstract: Increasing use of electronic design and prepress systems renders proofing from data an industry-wide **requirement**. Alternative proofing technologies are classified: progress, target and contract, describing the roles of proofs. A...

... soft proofs are adequate. Speed and costs matter more than quality. Target proofs inform the **printer** of his objective, deviations being acceptable in-house, but not to clients. Contract proofs must...

... agreed by both parties involved. Cromalin proofs, on flexible base, are most advantageous for flexography; **Kodak** Signature proofing and Konica Konsensus, not being **limited** to process **colours**, are applicable. Non-impact **printing** technologies, ink jet, thermal transfer, **photographic**, and electrophotographic, are now entrants to proofing, with future potential in various applications.

26/3,K/10 (Item 7 from file: 248)

DIALOG(R)File 248:PIRA

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00223743 Pira Acc. Num.: 9883298 Pira Abstract Numbers: 08-91-PU00993

Title: **BOOK MARKS**

Authors: Roth J

Source: Am. Printer vol. 206, no. 4, Jan. 1991, pp 44-47

Publication Year: 1991

Document Type: Journal Article

Language: English

...Abstract: at R R Donnelley and Sons Co., in conjunction with McGraw-Hill, for the electronic **printing** of customised books on demand in the educational field is described. Material is ordered from McGraw-Hill's 'Catalogue of Current Database Items' to fit the **requirements** of a particular class, using the Custom Publishing System developed for the company by Eastman **Kodak**. **Printing** is done at Donnelleys on **Kodak** 1392 electronic **printers**. Currently output is **limited** to one **colour** and 300dpi, but phased improvements will introduce electronic scanning (for **printing** from repro copy, tearsheets and film), electrophotographically duplicated spot **colour**, and electronically printed spot **colour**.

Company Names: EASTMAN **KODAK** CO...

...Descriptors: **COLOUR** ; ...

...FILM - **PHOTOGRAPHIC** ; ...

... **PRINTER** ; ...

... **PRINTING** ; ...

...SPOT **COLOUR** ;

26/3,K/11 (Item 8 from file: 248)

DIALOG(R)File 248:PIRA

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00154052 Pira Acc. Num.: 7321881 Pira Abstract Numbers: 02-87-00474

Title: FILMLESS COLOR PROOFING ON HORIZON FOR PRE-PRESS

Authors: Anon

Source: Folio vol. 15, no. 9, Sept. 1986, pp 16-18

ISSN: 0046-4333

Publication Year: 1986

Document Type: Journal Article

Language: English

Title: FILMLESS COLOR PROOFING ON HORIZON FOR PRE-PRESS

Abstract: Direct digital **colour** proofing which does not **require colour** separation films offers cost and time savings but the quality is not considered good enough for final **colour** checks. The recently introduced IRIS 2044 **colour** ink-jet **printer** is used for checking **image** retouching and positions of **graphic** elements. Soft proofs - the **image** displayed on a CRT monitor - are **limited** by television screen technology. Systems exhibited at DRUPA include: Instant FIRE 300 from Polaroid and...

... Du Pont and another from 3M in cooperation with Crosfield Electronics, and Agfa-Gevaert and **Kodak** are also working on systems. Consulting firm Dunn Technology projects that by the end of...

...Company Names: IRIS **GRAPHICS** INC...

... **KODAK** LTD

Descriptors: **COLOUR** ; ...

... **COLOUR** SEPARATION...

...FILM - **PHOTOGRAPHIC** ; ...

... **GRAPHIC** ; ...

... **IMAGE** ; ...

... **PRINTER** ;

?

30/3,K/1 (Item 1 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
(c) 2003 EBSCO Pub. All rts. reserv.

00202019 89MU10-019

MacSchedule

Landis, Ken

MacUser , October 1, 1989 , v5 n10 p169-171, 2 Pages

ISSN: 0884-0997

... v1.1.1 (\$195), a project management package, from Mainstay of Agoura Hills, CA (818). **Requires** a Mac Plus or later. Says that it is easy to resize Gantt charts along **different** time dimensions, automatically **keeps** track of the numbers of day left before a project is due, and the documentation is clear and concise; but it doesn't offer onscreen **color** , has **limited** graphics and **printing** capabilities, and lacks collapse feature. Says ``although it is a solid package, in its present...

30/3,K/2 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09859727

Printing colour labels on demand

Singapore: VIPColor launched colour label printer

Computertimes (UFL) 28 Aug 2002

Language: ENGLISH

Printing colour labels on demand

Singapore: VIPColor launched colour label printer

A unit of Venture Corporation, VIPColor Technologies (VIPColor) has released a new **printer** to print **colour** labels modeled VP2020 in Singapore. The **printer** supports **different** versions of Windows operating system such as 2000 and NT. It has a built-in 32MB RAM that can be **extended** to 128MB Dimm module. It offers resolution of 300X600 dot per inch (dpi) or 600X600 dpi. VIPColor has partnered with several firms to produce the **printer** . The partners and their contributions are as follows: Austik - labeling equipment production including lamination; Seagull Scientific - software for digital flow and **colour** label design; Fasson and Iiford - print media allowing the **printer** to print on fabric, plastics and paper; and Hewlett-Packard - print head and fast-dry inkjet technology. The revolutionary **printer** enables companies to print themselves **colour** labels as and when **required** in the exact number needed, thus **saving** the users cost and time.

PRODUCT: **Printing** Trades Machinery

30/3,K/3 (Item 1 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00590941 Pira Acc. Num.: 20188904

Title: Granthams now offers Roland's Hi-Fi JET Pro

Authors: Anon

Source: Screen Digital Printer no. 13, Nov.-Dec. 2000, p. 30

Publication Year: 2000

Document Type: Journal Article

Language: English

Abstract: Preston, UK, based Granthams offers the new Roland Hi-Fi Jet Pro wide format eight- **colour** piezo ink jet **printer** , covering applications from fast poster production to the highest quality photo-realistic and fine art output. Two models with **different** output sizes use variable droplet technology for true 1440 x 1440 dpi resolution. Options enable optimising output speed and resolution suiting specific applications. The eight **colour** capability allows either **printing** with twin sets of CMYK for the fastest output, or with CMYK plus orange, green, light cyan, and light magenta for an **extended colour gamut** , giving best **colour** fidelity. The **printer** can be run with CMYK pigmented inks in one printhead, and dye-based in the other, **saving** time and space. It can operate unattended, and either alone or Ethernet networked. (1 fig)

Descriptors: **COLOUR PRINTING ; ...**
...INK JET PRINTER ;

30/3,K/4 (Item 2 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00304331 Pira Acc. Num.: 10180240 Pira Abstract Numbers: 08-92-PT00787
Title: MAG WELCOMES HASHIMOTO WHILE KEEPING ADAST
Authors: Webster P
Source: Fr. Graphique no. 66, Dec. 1991, p. 14
ISSN: 0015-9565
Publication Year: 1991
Document Type: Journal Article
Language: French

Title: MAG WELCOMES HASHIMOTO WHILE KEEPING ADAST
...Abstract: Japanese Hashimoto range to its catalogue. The Adast presses are reconditioned to suit western European **requirements** , around 60 to 70% of the electrical components being **changed** . Although the Hashimoto presses cover the same formats as Adast's, they are not aimed at the same markets: the Adast range is **limited** to **printers** with less than 50 staff while Hashimoto will open up opportunities at the higher end...

... the market. Among the Japanese presses on offer will be the GR 65-2P two- **colour** convertible offset, the single **colour** AF-S sheetfed offset and the Impulse 26, an intelligent machine with diagnostic capabilities.

...Descriptors: **COLOUR ; ...**
... PRINTER ; ...

...TWO- COLOUR

30/3,K/5 (Item 3 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00174949 Pira Acc. Num.: 8227123 Pira Abstract Numbers: 02-88-02253
Title: FLEXOGRAPHY POSES NEW PROBLEMS, SOLUTIONS FOR DESIGNERS
Authors: Leonard M A
Source: Flexo vol. 13, no. 4, Apr. 1988, pp 41-44
ISSN: 0734-6980
Publication Year: 1988
Document Type: Journal Article
Language: English

Abstract: Flexographic **printing** is influence by the substrate, plates, press, inks and separation; greatest limitations arise from the plates and much **adaptability** is **required** for separations. Register marks should be used to aid quality control, preferably a cross in a circle or a square with a reverse area. **Colour** stations are **limited** to six for flexographic presses, but only two for corrugated substrates which print badly. Thermoplastics are non absorbent, so overprinting in a second **colour** is advantageous, or the use of white underlay with clear plastic. Flexographic inks are not standardised. Since **printing** plates have raised surfaces, start with the sharpest copy available, **keep** raised type smaller than **required** on the product and reverse type longer. Art work should be wrapped around a cylinder...
...Descriptors: COLOUR ; ...

... PRINTING ; ...

... PRINTING PLATE

?

34/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7798403 INSPEC Abstract Number: B2004-01-6135C-087, C2004-01-5260B-214

Title: High capacity reversible data embedding and content authentication

Author(s): Tian, J.

Author Affiliation: Digimarc Corp., Tualatin, OR, USA

Conference Title: 2003 IEEE International Conference on Acoustics, Speech, and Signal Processing (Cat. No.03CH37404) Part vol.3 p. III-517-20 vol.3

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2003 Country of Publication: USA 6 vol.(xcviii+927+852+788+883+823+764) pp.

ISBN: 0 7803 7663 3 Material Identity Number: XX-2003-01650

U.S. Copyright Clearance Center Code: 0-7803-7663-3/03/\$17.00

Conference Title: Proceedings of International Conference on Acoustics, Speech and Signal Processing (ICASSP'03)

Conference Sponsor: IEEE Signal Process, Soc

Conference Date: 6-10 April 2003 Conference Location: Hong Kong, China

Language: English

Subfile: B C

Copyright 2003, IEE

Title: High capacity reversible data embedding and content authentication

Abstract: We present a high capacity reversible data **embedding** algorithm. It serves the purpose of both self authentication and reversible data **embedding**. As the algorithm is reversible, the original digital content (before data **embedding**) can be completely restored after authentication. We employ two techniques, **difference** expansion and generalized least significant bit **embedding**, to achieve very high **embedding** capacity, while **keeping** the distortion (the quality degradation on the digital content after data **embedding**) low. A noticeable **difference** between our method and others is that we do not need to compress original **values** of the **embedding** area. We explore the redundancy in the digital content to achieve reversibility. The paper considers grayscale **images** only, but our method can be applied to **color images** and to digital audio and video as well.

...Descriptors: **image coding** ; ...

... **watermarking**

Identifiers: reversible data **embedding** ; ...

...high capacity data **embedding** ; ...

... **difference** expansion...

...generalized least significant bit **embedding** ; ...

...reversible **watermarking** ; ...

...digital **images** ; ...

...grayscale **images**

?

38/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6790531 INSPEC Abstract Number: B2001-02-6135C-035, C2001-02-5260D-020

Title: Kernel-based multiple cue algorithm for object segmentation

Author(s): Jian Wang; Ze-Nian Li

Author Affiliation: Sch. of Comput. Sci., Simon Fraser Univ., Burnaby, BC, Canada

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3974 p.462-73

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2000 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2000)3974L.462:KBMA;1-Q

Material Identity Number: C574-2000-114

U.S. Copyright Clearance Center Code: 0277-786X/2000/\$15.00

Conference Title: Image and Video Communications and Processing 2000

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 25-28 Jan. 2000 Conference Location: San Jose, CA, USA

Language: English

Subfile: B C

Copyright 2000, IEE

...Abstract: are textured regions with credible motion vectors. Beside motion information, it also makes use of **color** and texture to help achieving a better segmentation. Moreover, KMC can **keep** track of the segmented objects over multiple frames, which is useful for object-based **coding**. Experimental results show that KMC combines temporal and spatial information in a graceful way, which enables it to segment and track the moving objects under **different** camera motions. Future work includes object segmentation in compressed domain, motion estimation from raw video ...

...Descriptors: **image** segmentation...

... **image** texture...

...video **coding**

...Identifiers: object-based **coding** ; ...

...singular **value** decomposition

38/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6652612 INSPEC Abstract Number: B2000-09-6135C-015, C2000-09-5260D-006

Title: Compressed-domain video segmentation using wavelet transformation

Author(s): Yu, H.H.

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3808 p.140-7

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1999 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1999)3808L.140:CDVS;1-D

Material Identity Number: C574-2000-008

U.S. Copyright Clearance Center Code: 0277-786X/99/\$10.00

Conference Title: Applications of Digital Image Processing XXII
Conference Sponsor: SPIE
Conference Date: 20-23 July 1999 Conference Location: Denver, CO, USA
Language: English
Subfile: B C
Copyright 2000, IEE

...Abstract: based on the following consideration: the wavelet is a nice tool for subband decomposition, it **encodes** both frequency and spatial information; more over, it is easy to program and fast to execute. In the last decade or so, the wavelet transform has emerged from **image** /video signal processing for analyzing functions at **different** levels of detail. In particular, the wavelet, as a tool, has been widely used in the area of **image** compression. In **image** compression, it is possible to recover a fairly accurate representation of the **image** by **saving** the few largest wavelet coefficients (and throwing away part or all of the smaller coefficients). By using this property, we extract a discrimination signature of each **image** from a few large coefficients for each **color** channel. The system works on the compressed video that does not **require** full decoding of the video and performs a wavelet transformation on the extracted video data...

...Descriptors: **image** **colour** analysis...

... **image** representation...

... **image** segmentation...

...transform **coding** ; ...

...video **coding** ;

...Identifiers: frequency information **encoding** ; ...

...spatial information **encoding** ; ...

...video **coding** ; ...

... **image** /video signal processing...

... **image** compression...

... **image** representation...

... **color** channel

38/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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6366072 INSPEC Abstract Number: A1999-21-4280C-002, B1999-11-4190F-012

Title: Synthesis of composed filters by using color photographic films

Author(s): Villarreal, M.; Ledesma, S.; Iemmi, C.

Author Affiliation: Dept. de Fisica, Buenos Aires Univ., Argentina

Journal: Proceedings of the SPIE - The International Society for Optical Engineering
Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.3572 p.300-4

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1999 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1999)3572L:300:SCFU;1-Z

Material Identity Number: C574-1999-229
U.S. Copyright Clearance Center Code: 0277-786X/99/\$10.00
Conference Title: 3rd Iberoamerican Optics Meeting and 6th Latin American Meeting on Optics, Lasers, and Their Applications
Conference Sponsor: SPIE; Univ. Nacional de Colombia; Univ. Valle; Univ. Ind. Santander; et al
Conference Date: 28 Sept.-2 Oct. 1998 Conference Location: Cartagena de Indias, Colombia
Language: English
Subfile: A B
Copyright 1999, IEE

Title: Synthesis of composed filters by using color photographic films
Abstract: In many optical recognition processes a multiple filters synthesis is **required**. These filters are usually computer generated holograms in which it is possible to codify **different** objects to be detected and eventually someone to be refused. In most cases the codification...

... practical limit to the amount of information to be codified. Synthesis of composed filters in **color photographic** films by using a polychromatic source, would allow us to increase the capacity to **store** information.

Descriptors: **colour photography** ; ...

... **image coding** ; ...

... **image recognition**...

... **photographic emulsions**

...Identifiers: **color photographic** films

38/3,K/4 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
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6184162 INSPEC Abstract Number: B1999-04-6135-111, C1999-04-5260B-104
Title: Registration and integration of textured 3D data
Author(s): Johnson, A.E.; Sing Bing Kang
Author Affiliation: Jet Propulsion Lab., California Inst. of Technol., Pasadena, CA, USA
Journal: Image and Vision Computing Conference Title: Image Vis. Comput. (Netherlands) vol.17, no.2 p.135-47
Publisher: Elsevier,
Publication Date: Feb. 1999 Country of Publication: Netherlands
CODEN: IVCODK ISSN: 0262-8856
SICI: 0262-8856(199902)17:2L.135:RITD;1-N
Material Identity Number: F298-1999-003
U.S. Copyright Clearance Center Code: 0262-8856/99/\$20.00
Conference Title: International Conference on Recent Advances in 3-D Digital Imaging and Modeling (Cat. No.97TB100134)
Conference Sponsor: Nat. Res. Council Canada; Int. Assoc. Pattern Recognition
Conference Date: 12-15 May 1997 Conference Location: Ottawa, Ont., Canada
Language: English
Subfile: B C
Copyright 1999, IEE

Title: Registration and integration of textured 3D data

Abstract: In general, multiple views are **required** to create a complete 3D model of an object or of a multi-roomed indoor scene. In this work, we address the problem of **merging** multiple textured 3D data sets, each of which corresponds to a **different** view; of a scene. There are two steps to the **merging** process: registration and **integration**. To register, or align, data sets we use a modified version of the iterative closest point (ICP) algorithm; our version, which we call **color** ICP, considers not only 3D information, but **color** as well. We show that the use of **color** decreases registration error significantly when using omnidirectional stereo data sets. Once the 3D data sets have been registered, we **integrate** them to produce a seamless, composite 3D textured model. Our approach to **integration** uses a 3D occupancy grid to represent likelihood of spatial occupancy through voting. In addition to occupancy information, we **store** surface normal in each voxel of the occupancy grid. Surface normal is used to robustly...

Descriptors: **image** registration...

... **image** texture

...Identifiers: **merging** ; ...

... **integration** ;

38/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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6177184 INSPEC Abstract Number: A1999-07-8732S-024

Title: Local versus global contrasts in texture segregation

Author(s): Gorea, A.; Papathomas, T.V.

Author Affiliation: Lab. de Psychol. Exp., Univ. Rene Descartes, Paris, France

Journal: Journal of the Optical Society of America A (Optics, Image Science and Vision) vol.16, no.3 p.728-41

Publisher: Opt. Soc. America,

Publication Date: March 1999 Country of Publication: USA

CODEN: JOAOD6 ISSN: 0740-3232

SICI: 0740-3232(199903)16:3L:728:LVGC;1-Q

Material Identity Number: C458-1999-002

U.S. Copyright Clearance Center Code: 0740-3232/99/030728-14\$15.00

Language: English

Subfile: A

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Abstract: In a texture pair (TP) yielding a vertical or horizontal edge, the local (luminance or **color**) contrast or the local orientation of the individual textels is traded off with the global strength of the luminance-, **color** -, or orientation-defined TP edge so as to **keep** the latter at the detection threshold. Local and global contrasts are defined along the same...

... conditions) or along distinct physical dimensions (transdomain conditions). In the latter case local luminance or **color** contrast is traded off against global orientation. In all cases TP's are presented for 66.7 or 333.3 ms. Textels differ from the background in either luminance or **color** so that the TP's are respectively equichromatic or equiluminant. TP edge strength is modulated...

... local-global relationships are fitted with a version of the equivalent

noise model for contrast **coding** modified to include the presentation time factor. The extension of the standard model in the...

... for variable duration stimuli. Model fits of the within-domain data yield equivalent noise energy **values** significantly **different** for **color** - and luminance-defined TP's but are not applicable for the transdomain experiments, which indicates that global orientation processing is independent of both local luminance and local **color** contrast insofar as the latter are above the detection threshold. Finally, this study points to ...

...Descriptors: **colour** vision...

... **image** texture

...Identifiers: **color** ; ...

...contrast **coding** ;

38/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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5803540 INSPEC Abstract Number: B9802-6140C-325, C9802-5260B-203

Title: Comparative color space analysis of difference images from adjacent visible human slices for lossless compression

Author(s): Thoma, G.R.; Pipkin, R.; Mitra, S.

Author Affiliation: Commun. Eng. Branch, Nat. Libr. of Med., Bethesda, MD, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3165 p.180-5

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1997 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1997)3165L:180:CCSA;1-Z

Material Identity Number: C574-97288

U.S. Copyright Clearance Center Code: 0277-786X/97/\$10.00

Conference Title: Applications of Soft Computing

Conference Sponsor: SPIE

Conference Date: 28-29 July 1997 Conference Location: San Diego, CA, USA

Language: English

Subfile: B C

Copyright 1998, IEE

Title: Comparative color space analysis of difference images from adjacent visible human slices for lossless compression

Abstract: This paper reports the compression ratio performance of the RGB, YIQ, and HSV **color** plane models for the lossless **coding** of the National Library of Medicine's Visible Human (VH) **color** data set. In a previous study (Meadows et al., 1997) the correlation between adjacent VH slices was exploited using the RGB **color** plane model. The results of that study suggested an investigation into possible improvements using the other two **color** planes, and alternative differencing methods. YIQ and HSV, also known as HSI, both represent the **image** by separating the intensity from the **color** information, and we anticipated higher correlation between the intensity components of adjacent VH slices. However the compression ratio did not improve by the transformation from RGB into the other **color** plane models, since in order to maintain lossless performance, YIQ and HSV both **require** more bits to **store** each pixel. This study also explored three

methods of differencing: average reference **image** , alternating reference **image** , and cascaded **difference** from single reference. The best method proved to be the first iteration of the cascaded **difference** from single reference. In this method, a single reference **image** is chosen, and the **difference** between it and its neighbor is calculated. Then the **difference** between the neighbor and its next neighbor is calculated. This method **requires** that all preceding **images** up to the reference **image** be reconstructed before the target **image** is available. The compression ratios obtained from this method are significantly better than the competing...

...Descriptors: **image coding** ; ...

... **image colour** analysis...

... **image** matching...

... **image** reconstruction...

... **image** representation...

...medical **image** processing

Identifiers: comparative **color** space analysis...

... **difference images** ; ...

... **color** plane models...

...Visible Human **color** data set...

...average reference **image** ; ...

...alternating reference **image** ; ...

...cascaded **difference** ; ...

... **image** reconstruction

38/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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5596198 INSPEC Abstract Number: B9707-6140C-313, C9707-1250-135

Title: Registration and integration of textured 3-D data

Author(s): Johnson, A.E.; Sing Bing Kang

Author Affiliation: Robotics Inst., Carnegie Mellon Univ., Pittsburgh, PA, USA

Conference Title: Proceedings. International Conference on Recent Advances in 3-D Digital Imaging and Modeling (Cat. No.97TB100134) p. 234-41

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1997 Country of Publication: USA x+353 pp.

ISBN: 0 8186 7943 3 Material Identity Number: XX97-01150

U.S. Copyright Clearance Center Code: 0 8186 7943 3/97/\$10.00

Conference Title: Proceedings. International Conference on Recent Advances in 3-D Digital Imaging and Modeling (Cat. No.97TB100134)

Conference Sponsor: Nat. Res. Council Canada; Int. Assoc. Pattern Recognition

Conference Date: 12-15 May 1997 Conference Location: Ottawa, Ont., Canada

Language: English

Subfile: B C

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Title: Registration and integration of textured 3-D data

Abstract: In general, multiple views are **required** to create a complete 3-D model of an object or of a multi-roomed indoor scene. In this work, we address the problem of **merging** multiple textured 3-D data sets, each of which corresponds to a **different** view of a scene or object. There are two steps to the **merging** process: registration and **integration**. To register, or align, data sets we use a modified version of the Iterative Closest Point algorithm; our version, which we call **color** ICP, considers not only 3-D information, but **color** as well. We show that the use of **color** decreases registration error by an order of magnitude. Once the 3-D data sets have been registered we **integrate** them to produce a seamless, composite 3-D textured model. Our approach to **integration** uses a 3-D occupancy grid to represent likelihood of spatial occupancy through voting. In addition to occupancy information, we **store** surface normal in each voxel of the occupancy grid. Surface normal is used to robustly...

Descriptors: **image** registration...

...Identifiers: textured 3-D data **integration** ;

38/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

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5592783 INSPEC Abstract Number: C9707-5260B-173

Title: Color , complex document segmentation and compression

Author(s): Fung, H.T.; Parker, K.J.

Author Affiliation: Samsung Semicond., San Jose, CA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3027 p.180-91

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1997 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1997)3027L:180:CCDS;1-#

Material Identity Number: C574-97101

U.S. Copyright Clearance Center Code: 0 8194 2438 2/97/\$10.00

Conference Title: Document Recognition IV

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 12-13 Feb. 1997 Conference Location: San Jose, CA, USA

Language: English

Subfile: C

Copyright 1997, IEE

Title: Color , complex document segmentation and compression

...Abstract: called SMART (Segmentation by subjecting Macroblocks of Active Regions to the binarizability Test) for complex **color** documents. It decomposes a document **image** into binarizable and nonbinarizable components. The segmentation procedure includes **color** transformation, halftone texture suppression, subdivision of the **image** into 8*8 blocks, classification of these blocks as active or inactive, formation of macroblocks...

... histogram analysis. SMART is compared to the CRLA, RXYC and SPACE algorithms. SMART can handle **image** components of various shapes, multiple backgrounds of **different** gray levels, **different** grayness of text relative to the background, tilted **image** components and text of **different** gray levels. To compress the segmented **image** , we apply JPEG

to the nonbinarizable macroblocks and the Group 4 **coding** scheme to the binary **image** representing the binarizable macroblocks and to the bitmap **storing** the configuration of all macroblocks. Data about the representative gray **values**, the **color** information and other descriptors of the binarizable macroblocks and the background regions are also sent to allow **image** reconstruction. The gain in using our compression algorithm over using JPEG for the whole **image** is significant. This gain increases as the proportion of the size of the binarizable macroblocks and the background regions to the **image** size increases. Psychovisual experiments show that subjects prefer the reconstructed **images** from our compression algorithm to those from the bit-rate-matching JPEG **images**. This document segmentation and compression system enables compression ratios 2 to 6 times improved over...

...Descriptors: document **image** processing...

... **image** classification...

... **image** **coding** ; ...

... **image** **colour** analysis...

... **image** segmentation

Identifiers: complex **color** documents...

... **color** transformation...

... **image** subdivision...

... **image** component shapes...

...tilted **image** components...

...bit-rate-matching JPEG **images** ; ...

...Group 4 **coding** scheme...

... **image** compression...

... **image** reconstruction...

... **image** size

38/3,K/9 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

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5269934 INSPEC Abstract Number: B9607-6140C-016, C9607-1250-005

Title: The GrayCode octree representation method

Author(s): Senbel, S.A.; Ismail, M.A.

Author Affiliation: Dept. of Comput. Sci., Old Dominion Univ., Norfolk, VA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.2656 p.390-401

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1996 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1996)2656L:390:GORM;1-Z

Material Identity Number: C574-96072

U.S. Copyright Clearance Center Code: 0 8194 2030 1/96/\$6.00

Conference Title: Visual Data Exploration and Analysis III
Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol
Conference Date: 31 Jan.-2 Feb. 1996 Conference Location: San Jose,
CA, USA

Language: English

Subfile: B C

Copyright 1996, IEE

Abstract: The paper addresses the issue of octree representation. There are a lot of **different** octree representation methods. We propose a new representation method, the GrayCode. The representation can be...

... of several lists, each list representing one level of the octree. In each list we **store** only non-terminal (Gray) nodes. Each node record contains the node's locational **code**, and 8 fields containing the average **color** of each of its eight sons. The locational **code** specifies both the exact location of the octant in space and the size of the...

... of our representation method, we examine our representation based on four criteria: the ability to **store** a large amount of data, the ability to skip detail, compactness, and ease of processing...

... four criteria. We conclude that the GrayCode has the best overall performance in the octree **requirements**.

...Descriptors: **image** representation...

...stereo **image** processing

...Identifiers: node locational **code** ; ...

...average **color** ;

38/3,K/10 (Item 10 from file: 2)
DIALOG(R)File 2:INSPEC
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5073629 INSPEC Abstract Number: B9511-6140C-243, C9511-5260B-156

Title: Face locating and tracking for human-computer interaction

Author(s): Hunke, M.; Waibel, A.

Author Affiliation: Sch. of Comput. Sci., Carnegie Mellon Univ.,
Pittsburgh, PA, USA

Conference Title: Conference Record of the Twenty-Eighth Asilomar
Conference on Signals, Systems and Computers (Cat. No.94CH34546) Part
vol.2 p.1277-81 vol.2

Editor(s): Singh, A.

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1994 Country of Publication: USA 2 vol. xxii+1551
pp.

ISBN: 0 8186 6405 3

U.S. Copyright Clearance Center Code: 1058-6393/95/\$4.00

Conference Title: Proceedings of 1994 28th Asilomar Conference on
Signals, Systems and Computers

Conference Sponsor: Naval Postgraduate School; San Jose State Univ.; IEEE
Signal Process. Soc

Conference Date: 31 Oct.-2 Nov. 1994 Conference Location: Pacific
Grove, CA, USA

Language: English

Subfile: B C

Copyright 1995, IEE

...Abstract: aimed at providing such multimodal capabilities for

human-machine communication. Most of the visual modalities **require** a stable **image** of a speaker's face. We propose a connectionist face tracker that manipulates camera orientation and room, to **keep** a person's face located at all times. The system operates in real time and can adapt rapidly to **different** lighting conditions, cameras and faces, making it robust against environmental variability. Extensions and **integration** of the system with a multimodal interface are presented.

...Descriptors: **image** classification...

... **image** colour analysis

...Identifiers: face **colour** classifier

38/3,K/11 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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5017636 INSPEC Abstract Number: C9509-6160S-036

Title: Embedding **image** **query** operations in an object-relational database management system

Author(s): Ubell, M.; Olson, M.

Author Affiliation: Illustra Inf. Technol. Inc., Oakland, CA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference **Title:** Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.2420 p.197-203

Publication Date: 1995 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1767 X/95/\$6.00

Conference Title: Storage and Retrieval for Image and Video Databases III

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 9-10 Feb. 1995 **Conference Location:** San Jose, CA, USA

Language: English

Subfile: C

Copyright 1995, IEE

Title: Embedding **image** **query** operations in an object-relational database management system

Abstract: Modern computer applications use enormous volumes of rich data like video, still **images** and text, as well as more conventional numeric and character data. Managing huge volumes of such diverse data **requires** a database. Content queries, such as "find me the **color** **images** with red components higher than this threshold", **require** that the database system be able to apply the qualification directly. Relational database systems that **store** **images** as untyped binary large objects (BLOBs) cannot apply qualifications like this, because the database system...

... extend the set of types and functions known to the database system. Programmers can write **code** that is dynamically loaded into the database server, and that operates on complex data types such as **images**. Those functions can be used in standard SQL queries, and the database manager can use...

... functions are, so that it chooses an optimal strategy for satisfying complicated queries with many **different** predicates in their qualifications.

Identifiers: **embedded** **image** query operations...

...dynamically loaded **code** ; ...

... **image** storage

38/3,K/12 (Item 12 from file: 2)
DIALOG(R)File 2:INSPEC
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4551643 INSPEC Abstract Number: B9401-6120B-083, C9401-6130B-092
Title: ACC-lossless data compression of animation sequences
Author(s): Groller, E.; Stockers, W.
Author Affiliation: Inst. fur Computergraphik, Tech. Univ., Wien, Austria
Journal: IFIP Transactions B (Applications in Technology) vol.B-9
p.75-88
Publication Date: 1993 Country of Publication: Netherlands
CODEN: ITBTEH ISSN: 0926-5481
Conference Title: Graphics, Design and Visualization. IFIP
TC5/WG5.2/WG5.10 CSI International Conference on Computer Graphics - ICCG93
Conference Sponsor: IFIP
Conference Date: 24-26 Feb. 1993 Conference Location: Bombay, India
Language: English
Subfile: B C

Abstract: **Storing** and manipulating high quality **images** or animation sequences **require** a large amount of storage space. Data compression techniques have to be used to enable...

... method ACC, for the lossless data compression of computer generated animation sequences, that incorporates several **different** data compression techniques. Area **coding** (ACC), which is an extension of the modified read **code** to handle **color images**, reduces spatial redundancies by **coding** areas of pixels with the same **color value** in a short and concise way. Conditional frame replenishment (ACC) reduces temporal redundancies by a short **coding** of those pixels of consecutive frames whose **color values** do not change. A particular combination of area **coding** and conditional frame replenishment has been developed. The **color coding** part has been devised so that special characteristics of computer generated **images** or animation sequences are exploited. **Color difference** or quantization (ACC) is used for **coding** small and large **color** changes in two **different** ways. ACC **codes** are further compressed by Huffman **coding**. An animation sequence is thereby subdivided into groups of frames with similar statistics, the same Huffman **codes** are used for all frames of a group. The specific incorporation of several compression techniques...

...Descriptors: **encoding** ; ...

... **image** processing
Identifiers: **images storing** ; ...

... **images** manipulation...

...area **coding** ; ...

... **color images** ; ...

... **color coding** ; ...

...computer generated **images** ; ...

...Huffman **coding** ;

38/3,K/13 (Item 13 from file: 2)

DIALOG(R)File 2:INSPEC

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04184542 INSPEC Abstract Number: C9208-6180-005

Title: Large interactive database: design and implementation

Author(s): Peralta, R.; Peralta, A.; Vicente, E.; Prado, J.; Diaz, C.

Author Affiliation: Inst. de Ingenieria, Univ. Nacional Autonoma de Mexico, Coyoacan, Mexico

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1662 p.93-9

Publication Date: 1992 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 0816 6/92/\$4.00

Conference Title: Image Storage and Retrieval Systems

Conference Sponsor: SPIE; IS&T

Conference Date: 13-14 Feb. 1992 Conference Location: San Jose, CA, USA

Language: English

Subfile: C

Abstract: A database system is being **integrated** in order to **store** and interactively retrieve information from a several hundred Gbytes optical memory. The low cost, high reliability **requirements** for the development and maintenance phase of the system suggested a modular design based on...
... or other controls, since they are exposed to use by the general public. Optical disks **store graphics**, video, stills, text, animation and audio which are accessed through hypertext and interactive **graphics** whilst a somewhat simple expert analyzes and records data on various aspects of the user...

... common questions, sociological-educational, background, etc. This information is in turn used to adapt several **parameters** of information display: rate of flow, language style, number and type of control buttons, degree of detail and others. The large quantity of video, still **images** and **different graphics** formats, has made it necessary to optimize the information contained via reduction of **colors** /resolution, compression techniques and recursive use of a basic set of displays and video segments
...

...Identifiers: **graphics** ; ...

...interactive **graphics** ; ...

... **graphics** formats

38/3,K/14 (Item 14 from file: 2)

DIALOG(R)File 2:INSPEC

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04114394 INSPEC Abstract Number: B9205-6430-005

Title: A TV analogue to digital conversion system

Author(s): Newton, A.D.; Maeder, H.

Author Affiliation: Motorola Inc., Phoenix, AZ, USA

Journal: IEEE Transactions on Consumer Electronics vol.37, no.4 p. 829-39

Publication Date: Nov. 1991 Country of Publication: USA

CODEN: ITCEDA ISSN: 0098-3063

U.S. Copyright Clearance Center Code: 0098-3063/91/1100-0829\$01.00

Language: English

Subfile: B

...Abstract: conversion of analog TV signals into a digital format suitable for storage in a field **store** used in **picture** applications or for use in a computer environment. In this type of application, the system clock is usually **required** to be a discrete multiple of horizontal line frequency, i.e. line locked. The system...

... signal processor driving a CMOS triple analog-to-digital converter. An external divider gives the **required** division ratio between the system clock and the TV horizontal line rate. Signals are accepted in all standard formats, i.e. NTSC/PAL/SECAM composite video, luminance with **color difference** signals, S-VHS, or RGB. Separate composite sync signals may be used in conjunction with...

...Descriptors: bipolar **integrated** circuits...

...CMOS **integrated** circuits...

...Identifiers: field **store** ; ...

... **picture** applications...

... **color difference** signals

38/3,K/15 (Item 15 from file: 2)
DIALOG(R)File 2:INSPEC
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03173161 INSPEC Abstract Number: A88090368

Title: Characterization of homogeneity in (U, Gd)O/sub 2/-pellets

Author(s): Halldahl, L.; Eriksson, S.

Author Affiliation: ASEA-ATOM, Vasteras, Sweden

Journal: Journal of Nuclear Materials vol.153 p.66-70

Publication Date: April 1988 Country of Publication: Netherlands

CODEN: JNUMAM ISSN: 0022-3115

U.S. Copyright Clearance Center Code: 0022-3115/88/\$03.50

Conference Title: Conference on Characterization and Quality Control of Nuclear Fuels

Conference Date: 25-27 May 1987 Conference Location: Karlsruhe, West Germany

Language: English

Subfile: A

Abstract: One important **parameter** in (U, Gd)O/sub 2/ fuel pellets is homogeneity. Is the **added** Gd/sub 2/O/sub 3/-material forming an ideal solid solution with the UO...

... Gd/sub 2/O/sub 3/, and the particle size distribution of this fraction, to **keep** control of a large scale production. The usual way of measuring this **parameter** is to **colour**-etch a polished surface of a cut pellet, and to measure and count particles of...

... presented. One method utilizes the principle of electron backscattering in an electron microscope, whereby an **image** is produced, containing a correlation between **image** darkness and atomic number. The other method is a simple acid-etch method producing variations in darkness due to gadolinium content. Both methods can be evaluated by automated **image** processing. These methods are less sensitive to sample preparation, and provide better data for statistical evaluation. Comparisons between results from **different** methods are presented and discussed.

...Identifiers: automated **image** processing...

38/3,K/16 (Item 16 from file: 2)
DIALOG(R)File 2:INSPEC
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02787345 INSPEC Abstract Number: B87003439, C87002695
Title: New design for an 82720-based colour graphics generator
Author(s): Prabhakar Rao, P.; Srinivasan, S.
Author Affiliation: Dept. of Electr. Eng., Indian Inst. of Technol.,
Madras, India
Journal: Microprocessors and Microsystems vol.10, no.7 p.386-91
Publication Date: Sept. 1986 Country of Publication: UK
CODEN: MIMID5 ISSN: 0141-9331
U.S. Copyright Clearance Center Code: 0141-9331/86/07386-06\$03.00
Language: English
Subfile: B C

Title: New design for an 82720-based colour graphics generator
Abstract: A low-cost Multibus-compatible **graphics** generator has been designed for a resolution of 512*512 pixels with a 3-bit **colour code** per pixel. The heart of the system is an 82720 **graphics** display controller (GDC). Usual designs of **colour graphics** generators use three **different** memory planes, each containing information corresponding to one of the three primary **colours** of the cathode ray tube (CRT). However, this approach **requires** a large PCB area and a large number of memories and transceivers. Further, the design...
... the scheme presented in this paper, the memory is partitioned into segments, three of which **store graphics** information corresponding to three **colours**. The three segments are read sequentially within each GDC read cycle, using the full speed...
Descriptors: computer **graphic** equipment...
Identifiers: Intel 82720 **graphics** display controller...
...Multibus-compatible **graphics** generator...

38/3,K/17 (Item 17 from file: 2)
DIALOG(R)File 2:INSPEC
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02629002 INSPEC Abstract Number: B86024053
Title: Digital TV receivers: a run-up to picture improvement
Journal: Funkschau no.25 p.53-6
Publication Date: 6 Dec. 1985 Country of Publication: West Germany
CODEN: FUSHA2 ISSN: 0016-2841
Language: German
Subfile: B

Title: Digital TV receivers: a run-up to picture improvement
Abstract: In competition to the established ITT 'Digit-2000' concept, Valvo and Siemens have **jointly** developed a digital receiver system, regulated by line frequency and its multiples. The composite signal...
... clock change to 13.5 MHz (864*line frequency); this rate is also used for **colour** demodulation, in contrast to the burst-oriented ITT approach. The advantages, simplifying features like **picture** freeze, fast access to videotext pages and flicker reduction, are explained. Block diagrams show two special IC's of the total of 5: the **colour** decoder with a comb filter, multiplexer with Y, U, V outputs, sync processor and I/sup 2/C bus

interface; the video D/A processor, containing 2 demultiplexers, **colour difference** filters, 3 D/A output converters and a crispening circuit. 256 grey steps for the Y-signal are achieved. For the purpose of **image** storage 2.35 Mbit per frame are **required**; Valvo proposes to use a CCD **store**, organized in 294 lines of 1080 bit each, Siemens prefers a DRAM.

Descriptors: **colour** television receivers

...Identifiers: **colour** demodulation...

... **picture** freeze...

... **colour** decoder...

...CCD **store** ;

38/3,K/18 (Item 18 from file: 2)

DIALOG(R)File 2:INSPEC

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02496241 INSPEC Abstract Number: B85046888

Title: A procedure for the sampling-rate reduction of the colour difference signals in a future digital HDTV-system

Author(s): Klaas, L.; Hofker, U.; Reuter, T.

Journal: Archiv fur Elektronik und Uebertragungstechnik vol.39, no.3
p.161-6

Publication Date: May-June 1985 Country of Publication: West Germany

CODEN: AEUTAH ISSN: 0001-1096

Language: German

Subfile: B

Title: A procedure for the sampling-rate reduction of the colour difference signals in a future digital HDTV-system

Abstract: The digital transmission of a high definition television (HDTV) **picture** based on today's studio standard, i.e. 1:2 line interlacing and component **coding**, **requires** a sampling rate reduction of the chrominance components to use the reduced **colour** resolution of the human eye for **saving** of transmission bandwidth. To obtain an optimal **picture** quality, the spectral domain that can be transmitted by the reduced sampling lattice must have...

...transmission of the chrominance components. A procedure for the sampling rate reduction guaranteeing an optimal **picture** quality for a sampling rate relation of 4:1 or 6:1 is presented.

Descriptors: **colour** television...

Identifiers: human eye **colour** resolution...

... **colour** **difference** signals...

...component **coding** ; ...

...optimal **picture** quality

38/3,K/19 (Item 19 from file: 2)

DIALOG(R)File 2:INSPEC

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01763263 INSPEC Abstract Number: B81052241

Title: From analogue to digital television

Author(s): Valle, J.

Journal: Revista Espanola de Electronica vol.28, no.319 p.56-8

Publication Date: June 1981 Country of Publication: Spain
CODEN: RVEEBT ISSN: 0482-6396
Language: Spanish
Subfile: B

Abstract: Explains how the **colour** of the sampled signal has to be converted into two sets of binary digits, one set to define its **colour** and one to define its luminosity and how the position of the sample also receives a binary **coding** to define the line in which it appears and its position in the line. After discussing the number of binary digits **required** to define luminosity, explains the method of **coding colour**, by one of the three standard methods depending on the three **different primary colour** frequencies, and shows how the **colour** signal can be transmitted by time multiplexing. Discusses the need to **store** the information sampled by the magnetoscope and the use of delay lines to synchronise the...

... of the successive signals transmitted. In addition to the use of stores by which an **image** can be modified (using two samples per **image**) the article describes how, by means of storage and comparators, those **images** which are invariable are carefully filtered whilst a changing **image**, to which the eye is less sensitive, is not processed. Despite the great accuracy and...

... their adoption for television is partly due to their novelty and partly to the basic **differences** in the present television systems which create great difficulties for digitally controlled systems.

Descriptors: **colour** television...

...Identifiers: **colour** ; ...

...binary **coding** ; ...

...primary **colour** frequencies

38/3,K/20 (Item 1 from file: 6)
DIALOG(R) File 6:NTIS
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1417212 NTIS Accession Number: DE89000587

High Level Tools for GKS Graphics

Worlton, T. G.

Argonne National Lab., IL.

Corp. Source Codes: 001960000; 0448000

Sponsor: Department of Energy, Washington, DC.

Report No.: CONF-880569-4

1988 8p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI8908; NSA1300

DECUS spring symposium, Cincinnati, OH, USA, 16 May 1988.

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High Level Tools for GKS Graphics

GKS **graphics** software provides a device independent method of producing **graphics** on a number of **different** devices, but it is a rather low level package which is difficult to use. The GLOT Fortran library of **graphics**

tools discussed here can be used to simplify the creation of scientific **graphics** with VAX GKS(GPL). GPLOT contains routines for drawing and labelling of axes for linear...

... error bars on the data points. It provides routines for producing a legend which automatically **keeps** track of the line type, **color**, and marker type used in producing each of the curves on a plot. There are...

...various types of arrow heads. GPLOT allows setting the text font by font name and **attributes**. It also allows the definition of switch characters to switch fonts or do subscripts and superscripts using instructions **embedded** in the string. GPLOT supports the GKS feature of multiple active workstations which allows creation...

... GKS metafiles and includes a program for interpreting and plotting GKS metafiles. It also supports **graphics** locator input with conversion of coordinates to user units if desired. To simplify user interaction during input, there are routines for switching between VT220 mode and **graphics** mode. A number of examples are presented. 12 refs., 6 figs. (ERA citation 13:058297)

Descriptors: Computer **Graphics**; Computer Architecture; FORTRAN; G Codes

38/3,K/21 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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05670176 E.I. No: EIP00105352680

Title: **Digital** photography - how long will it last?

Author: Frey, F.; Susstrunk, S.

Corporate Source: Rochester Inst of Technology, Rochester, NY, USA

Conference Title: Proceedings of the IEEE 2000 Internaitonal Symposium on Circuits and Systems

Conference Location: Geneva, Switz Conference Date: 19000528-19000531

E.I. Conference No.: 57402

Source: Proceedings - IEEE International Symposium on Circuits and Systems v 5 2000. IEEE, Piscataway, NJ, USA,00CB36353. p V-113-V-116

Publication Year: 2000

CODEN: PICSDI ISSN: 0271-4310

Language: English

Title: **Digital** photography - how long will it last?

Abstract: Permanence issues for digital **photographs** arise in three **different** areas. First, the materials used for digital hard copies should preferably be as permanent as the conventional **photographic** materials. Longevity of digital hard copy materials is affected by the stability of the material...

...not only on various systems and platforms today but also in the future. Third, the **encoding** of digital **images** should be such that any improvement in processing algorithms and display/output technologies can be applied in future **image** workflows. The safe **keeping** of digital data **requires** an active and regular maintenance of the data. This paper will discuss **encoding** issues for archival **images** and strategies to make **image** preservation happen for digital **photographs**. (Author abstract) 17 Refs.

Descriptors: Digital signal processing; **Color** photography; **Color** image processing; **Image** coding

Identifiers: Digital **photography**

38/3,K/22 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04367763 E.I. No: EIP96023021535

Title: Linear quadtree coding scheme with hierarchical structure and rotational operator

Author: Chang, Henry K.; Chou, Kro-Chien; Hsieh, Chen-Chiung
Corporate Source: Natl. Defense Management Coll., Chung-Ho, Taipei, Taiwan

Conference Title: Coding and Signal Processing for Information Storage
Conference Location: Philadelphia, PA, USA Conference Date: 19951023-19951024

E.I. Conference No.: 22458

Source: Proceedings of SPIE - The International Society for Optical Engineering v 2605 1995. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 182-192

Publication Year: 1995

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-1969-9

Language: English

Title: Linear quadtree coding scheme with hierarchical structure and rotational operator

Abstract: A new **coding** scheme for linear quadtree and a basic geometric operation are proposed in this paper. There are two objectives in this paper. The first objective is to find a **coding** scheme with which the **requirement** of large storage for **storing** raster data can be improved from the past research. The second objective is to verify the feasibility of the proposed **coding** scheme for spatial data operations. The proposed linear quadtree **coding** scheme is developed on the basis of the hierarchical structure of the quadtree. Techniques of...

...two data structures of branch list and data list are used to derive the proposed **coding** scheme. The branch list maintains the outputs of the quadtree decomposition, and uses only one bit to record each node; all terminal nodes, representing **different** spatial data, in the quadtree are recorded in the data list. The application of the data list has an advantage that the number of bits **required** to represent various objects are extendible, so that the **requirement** of the construction of new quadtrees is no longer necessary. The feasibility of the proposed linear quadtree **coding** scheme is verified by two raster **images** of spatial data. Results of experimental tests reveal that the proposed scheme has the least storage **requirement** among various **coding** schemes. A basic operation, rotation, is also implemented to demonstrate the applicability of the proposed **coding** scheme for geometric operations. Due to the characteristic of the proposed **coding** scheme, the problem of multicolor quadtrees is also solvable by the method proposed in this...

Descriptors: **Image coding** ; Hierarchical systems; Optical data storage ; Testing; **Color**

38/3,K/23 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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03515254 E.I. Monthly No: EIM9211-059132

Title: Hardware-specific image compression techniques for the animation of CFD data.

Author: Jones, Stephen C.; Moorhead, Robert J. II

Corporate Source: Mississippi State Univ., Mississippi State, MS, USA
Conference Title: Visual Data Interpretation
Conference Location: San Jose, CA, USA Conference Date: 19920210
E.I. Conference No.: 17243
Source: Proceedings of SPIE - The International Society for Optical Engineering v 1668. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 141-146
Publication Year: 1992
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0822-0
Language: English

Title: Hardware-specific image compression techniques for the animation of CFD data.

...Abstract: visualization and animation of computational fluid dynamics (CFD) data is vital in understanding the varied **parameters** that exist in the solution field. Scientists need accurate and efficient visualization techniques. The animation...

...for efficient retrieval without rendering or consuming a considerable amount of disk space. The spatial **image** resolution is reduced from 1280 multiplied by 1024 to 512 multiplied by 480 in going...

...format to a video format, therefore, a desire to save these animations on disk results. **Saving** on disk allows the animation to maintain the spatial and intensity quality of the rendered **image** and allows the display of the animation at approximately 30 frames/sec, the standard video rate. The goal is to develop optimal **image** compression algorithms that allow visualization animations, captures as independent RGB **images**, to be recorded to tape or disk. If recorded to disk, the **image** sequence is compressed in non-realtime with a technique which allows subsequent decompression at approximately...

...sec to simulate the temporal resolution of video. Initial compression is obtained through mapping RGB **colors** in each frame to a 12-bit **colormap image**. The **colormap** is animation sequence dependent and is created by histogramming the **colors** in the animation sequence and mapping those **colors** with relation to specific regions of the L***a***b*** **color** coordinate system to take advantage of the uniform nature of the L***a***b*** **color** system. Further compression is obtained by taking interframe **differences**, specifically comparing respective blocks between consecutive frames. If no change has occurred within a block a zero is recorded otherwise the entire block containing the 12-bit indices of the **colormap** is retained. The resulting block **differences** of the sequential frames in each segment will be saved after huffman **coding** and run length **encoding**. Playback of an animation will avoid much of the computations involved with rendering the original...

...The algorithms will be written to take advantage of the systems hardware, specifically the Silicon **Graphics** VGX **graphics** adapter. 7 refs.

...Descriptors: Visualization; FLUID DYNAMICS; **IMAGE** PROCESSING; COMPUTER **GRAPHICS** --

Identifiers: HARDWARE-SPECIFIC **IMAGE** COMPRESSION; COMPUTATIONAL FLUID DYNAMICS

38/3,K/24 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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03063996 E.I. Monthly No: EIM9105-020316

Title: Design of a multi-function video decoder based on a motion-compensated predictive. Interpolative coder .

Author: Yang, Kun-Min; Singhal, Sharad; LeGall, Didier

Corporate Source: Bellcore, Morristown, NJ, USA

Conference Title: Visual Communications and Image Processing '90

Conference Location: Lausanne, Switz Conference Date: 19901001

E.I. Conference No.: 13910

Source: Proceedings of SPIE - The International Society for Optical Engineering v 1360 pt 3. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 1530-1539

Publication Year: 1990

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0421-7

Language: English

Title: Design of a multi-function video decoder based on a motion-compensated predictive. Interpolative coder .

Abstract: It is now possible to **encode** VCR quality video and stereo audio at only 1.5 Mbit/s. In addition, standards have been defined for compressing full **color** still **images** and and teleconferencing video at bit rates of 64 to 1920 kbit/s. Finally there...

...the next generation of PCs which will incorporate multimedia displays and have capabilities to edit, **store** and transmit video and **images** over communication networks. Although the standards defined for video teleconferencing and those being defined for storage of video and **images** are **different**, they still have substantial parts that are common. In this paper, we describe the design of a multi-function decoder that is capable of decoding bit streams from the **different encoders**. By sharing functional modules that are common to the **different** algorithms, the decoder can cope with the **different** standards with only a minimal increase in complexity **required** over that needed for any one standard. In addition, it allows transparent display of video information **coded** at **different** frame rates and using **different** aspect ratios, thus facilitating exchange of information between NTSC and PAL-based systems as well...

...Descriptors: Video Signals; **IMAGE** PROCESSING...

... **Image Coding ; IMAGING TECHNIQUES**

38/3,K/25 (Item 5 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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02154053 E.I. Monthly No: EI8701004071

Title: Automatic Burner Control Incorporated in Modern Supervisory Process Control Systems.

Title: EINBINDUNG DER BRENNERREGELUNG IN MODERNE PROZESBLEITSYSTEME.

Author: Piwinger, F.

Corporate Source: Intrametric Prozess-Automation, Bad Duerkheim, West Ger

Source: Gas Waerme International v 35 n 6 Aug 1986 p 328-330

Publication Year: 1986

CODEN: GWINAT ISSN: 0020-9384

Language: GERMAN

Abstract: A number of combustion controllers featuring microprocessors which fully meet **requirements** in terms of combustion control aimed at **saving** energy and reducing atmospheric pollution. The controllers can be adapted to **different** types of furnace operating with one or several burners or capable of being changed over from one type of fuel to another. Via serial interfaces such combustion computers can be **integrated** in

supervisory process control systems incorporating **colour graphic** terminals. Such systems are increasingly being used in industry. Prices have now reached a level...

38/3,K/26 (Item 6 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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01836668 E.I. Monthly No: EI8512125606 E.I. Yearly No: EI85117066
Title: Procedure for Sampling-Rate Reduction of the Colour Difference Signals in a Future Digital HDTV System.
Title: EIN VERFAHREN ZUR ABTASTRATENREDUKTION DER FARBDIFFERENZSIGNALE IN EINEM ZUKUENFTIGEN DIGITALEN HDTV-SYSTEM.
Author: Klaas, von Lothar; Hoefker, Ulrich; Reuter, Thomas
Source: AEU, Archiv fuer Elektronik und Uebertragungstechnik: Electronics and Communication v 39 n 3 May-Jun 1985 p 161-166
Publication Year: 1985
CODEN: AEUTAH ISSN: 0001-1096
Language: GERMAN

Title: Procedure for Sampling-Rate Reduction of the Colour Difference Signals in a Future Digital HDTV System.
Abstract: The digital transmission of a high definition television (HDTV) **picture** based on today's studio standard, i. e. 1:2 line interlacing and component **coding**, **requires** a sampling rate reduction of the chrominance components to use the reduced **colour** resolution of the human eye for **saving** of transmission bandwidth. To obtain an optimal **picture** quality, the spectral domain that can be transmitted by the reduced sampling lattice must have...
...transmission of the chrominance components. A procedure for the sampling rate reduction guaranteeing an optimal **picture** quality for a sampling rate relation of 4:1 or 6:1 is presented. (Edited...
Descriptors: TELEVISION, **COLOR** --* **Picture** ...

...Picture Quality; TELEVISION TRANSMISSION
Identifiers: **COLOUR DIFFERENCE SIGNALS**; HIGH DEFINITION TELEVISION (HDTV); DIGITAL HDTV

38/3,K/27 (Item 7 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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00730087 E.I. Monthly No: EI7807054222 E.I. Yearly No: EI78087731
Title: DIFFERENTIAL CODING OF PAL VIDEO SIGNALS USING INTRAFIELD PREDICTION.
Author: Devereux, V. G.
Corporate Source: BBC Res Dep, Kingswood Warren, Surrey, Engl
Source: Proceedings of the Institution of Electrical Engineers (London) v 124 n 12 Dec 1977 p 1139-1147
Publication Year: 1977
CODEN: PIEEAH ISSN: 0020-3270
Language: ENGLISH

Title: DIFFERENTIAL CODING OF PAL VIDEO SIGNALS USING INTRAFIELD PREDICTION.
Abstract: The paper discusses the application of differential pulse- **code** modulation (d. p. c. m.) and hybrid d. p. c. m. /p. c. m. **coding** as a means of reducing the bit rate **required** for broadcast-quality System I

(Pal, 625-line, 5.5 MHz) video signals. In the d. p. c. m. **codes** investigated, each codeword indicated the **difference** in magnitude between a sample of a video signal and a prediction of this sample...

...same and/or previous line periods with a sampling frequency equal to three times the **color** subcarrier frequency. The **codes** examined **required** the transmission of between 3 and 6 bits per sample. Subjective test results are given for the **picture** impairment caused by quantizing errors and transmission errors. The tests on quantizing errors indicated that d. p. c. m. could provide a **saving** of nearly 2 bits per sample compared with p. c. m. A comparison of subjective...

...rms quantizing errors for d. p. c. m. and p. c. m. indicates that the **picture** impairment corresponding to a given signal/noise ratio is similar for both d. p. c. m.

Descriptors: TELEVISION, **COLOR** ; PULSE **CODE** MODULATION
Identifiers: PAL **COLOR** TV

38/3,K/28 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

08871136 Genuine Article#: 338MZ No. References: 19
Title: Axi-Vision Camera (real-time distance-mapping camera)
Author(s): Kawakita M (REPRINT) ; Iizuka K; Aida T; Kikuchi H; Fujikake H; Yonai J; Takizawa K
Corporate Source: NHK JAPAN BROADCASTING CORP, SCI & TECH RES LABS, SETAGAYA KU, 1-10-11 KINUTA/TOKYO 1578510//JAPAN/ (REPRINT); UNIV TORONTO, DEPT ELECT & COMP ENGN/TORONTO/ON M5S 1A4/CANADA/
Journal: APPLIED OPTICS, 2000, V39, N22 (AUG 1), P3931-3939
ISSN: 0003-6935 Publication date: 20000801
Publisher: OPTICAL SOC AMER, 2010 MASSACHUSETTS AVE NW, WASHINGTON, DC 20036
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: The camera described here makes **color** TV **images** that include information about the distance between the camera and the objects in the **images**. This range information is obtained from two **images** of the same scene taken under **different** illumination conditions. The camera does not **require** scanning, multiple camera units, or complicated computation. Range information for each pixel is acquired fast enough to **keep** up with the video rate of a TV camera. We describe various operational features and...

...ranging errors as well as the results of experimental investigations of the dependence on the **color** and reflectivity of the objects, of the sensitivity to interference from external light, and of the effects of the movement of the objects. (C) 2000 Optical Society of America OCIS **codes** : 110.6880, 150.6910, 150.5670, 120.6650, 100.6890.

38/3,K/29 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

06835549 Genuine Article#: ZV758 No. References: 23
Title: Switchable glazing with a large dynamic range in total solar energy transmittance (TSET)
Author(s): Georg A (REPRINT) ; Graf W; Schweiger D; Wittwer V; Nitz P; Wilson HR

Corporate Source: FRAUNHOFER ISE,OLTMANNSSSTR 5/D-79100 FREIBURG//GERMANY/
(REPRINT); FREIBURGER MAT FORSCHUNGSZENTRUM,/FREIBERG//GERMANY/
Journal: SOLAR ENERGY, 1998, V62, N3,SI (MAR), P215-228
ISSN: 0038-092X Publication date: 19980300
Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,
KIDLINGTON, OXFORD OX5 1GB, ENGLAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Modern, energy- **saving** buildings incorporate large areas of
highly insulating glazing. The resulting solar gains lead to major...

...aims to present new and viable alternatives. Two types of switching
layers, which are quite **different** in their structure and function,
but are similar in having a large dynamic range in...

...being investigated-gasochromic and thermotropic.

Gasochromic windows are actively switched between a clear and a
coloured (but **image** -preserving) state by alternately introducing
strongly diluted O-2 and H-2 gases. In contrast...

...gas concentration and its flow velocity is needed to obtain the desired
switching rate. Homogeneous **colouring** of the whole area within
seconds has been achieved. In addition to information on the **colouring**
kinetics, the paper also discusses system aspects of these windows.

Thermotropic layers switch reversibly and...

...of glass laminates with a thermotropic layer are presented. These are
combined with the measured **values** for further panes to calculate the
characteristic data for thermotropic insulated glazing units. The
results...

...65 m(2) prototype window. Stability results are also included.

The effect of the two **different** types of switchable glazing on
building energy savings is explored for a residential building model...
...Identifiers--TRIOXIDE THIN-FILMS; TUNGSTEN; **INSERTION**; HYDROGEN; WO3

38/3,K/30 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

06241692 Genuine Article#: YE077 No. References: 43

Title: **Angiocardiographic digital still images compressed via
irreversible methods: concepts and experiments**

Author(s): Portoni L (REPRINT) ; Combi C; Pozzi G; Pinciroli F; Fritsch JP;
Brennecke R

Corporate Source: POLITECN MILAN,DIPARTIMENTO BIOINGN, P L DA VINCI
32/I-20133 MILAN//ITALY/ (REPRINT); UNIV UDINE,DIPARTIMENTO MATEMAT &
INFORMAT/I-33100 UDINE//ITALY/; POLITECN MILAN,DIPARTIMENTO ELETTRON &
INFORMAZ/MILAN//ITALY/; CNR,CTR INGN BIOMED/I-20133 MILAN//ITALY/; UNIV
MAINZ,MED KLIN 2/D-6500 MAINZ//GERMANY/

Journal: INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS, 1997, V46, N3 (OCT)
, P185-204

ISSN: 1386-5056 Publication date: 19971000

Publisher: ELSEVIER SCI IRELAND LTD, CUSTOMER RELATIONS MANAGER, BAY 15,
SHANNON INDUSTRIAL ESTATE CO, CLARE, IRELAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Angiocardiographic digital still images compressed via irreversible methods: concepts and experiments

Abstract: We defined, implemented and tested two new methods for irreversible compression of angiocardiographic still **images**: brightness error limitation (BEL) and pseudo-gradient adaptive brightness and contrast error limitation (PABCEL). The scan path used to compress the digital **images** is based on the Peano-Hilbert plane-filling curve. The compression methods limit, for each pixel, the brightness errors introduced when approximating the original **image** (i.e. the **difference** between the **values** of corresponding pixels as grey levels). Additional limitations are imposed to the contrast error observed when considering along the scan path consecutive pixels of both the original and the reconstructed **image**. After previous testing on angiocardiographic **images** selected as clinically significant from 35 mm films, we enlarged our experiment to a set of 38 coronary angiograms digitally acquired. BEL and PABCEL methods were experimented according to several **values** of the implied thresholds. Up to a compression ratio of 9:1 for the BEL method and 10:1 for the PABCEL method, no deterioration of the reconstructed **images** were detected by human observers. After a visual evaluation, we performed a quantitative evaluation. The visualization of pseudo- colour **difference images** showed the capability of BEL and PABCEL for preserving the most significant clinical details of the original **images**. For comparison, we applied the JPEG (joint photographic experts group) **image** -compression standard to the same set of **images**. In this case, pseudo- colour **difference images** showed a homogeneous distribution of errors on the **image** surface. Quantitative compression results obtained by testing the **different** methods are comparable, but, unlike JPEG, BEL and PABCEL methods allow the user to **keep** under his direct control the maximum error allowed at each single pixel of the original **image**. These **different** behaviors are confirmed by the **values** obtained for the considered numerical quality quantifiers. (C) 1997 Elsevier Science Ireland Ltd.

...Identifiers--VECTOR QUANTIZATION; MEDICAL **IMAGES**; DIAGNOSTIC-ACCURACY; QUALITY; CLASSIFICATION

Research Fronts: 95-6113 002 (VECTOR QUANTIZATION; **IMAGE** COMPRESSION; OPTIMAL ADAPTIVE K-MEANS ALGORITHM)

95-0393 001 (VIDEO COMPRESSION; VLSI IMPLEMENTATION OF THE INVERSE DISCRETE COSINE TRANSFORM; LOW-BIT-RATE SEGMENTATION-BASED **IMAGE** SEQUENCE **CODING**; VECTOR QUANTIZATION)

95-1109 001 (LOW BIT-RATE VIDEO **CODING** USING WAVELET VECTOR QUANTIZATION; TEXT COMPRESSION; EFFICIENT STRATEGIES; LEMPEL-ZIV PARSING ALGORITHM)

38/3,K/31 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online
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01751720 ORDER NO: AADAA-IC800791

Invariant scene representations for preattentive similarity assessment:
Content-based image retrieval exploring low- and intermediate-level image information

Author: Dimai, Alexander

Degree: Dr.sc.tech.

Year: 1999

Corporate Source/Institution: Eidgenoessische Technische Hochschule
Zuerich (Switzerland) (0663)

Source: VOLUME 61/01-C OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 255. 157 PAGES

ISBN: 3-905588-01-3
Publisher: Institute for Communication Technology, ETH Zurich, CH-8092
Zurich, Switzerland

**Invariant scene representations for preattentive similarity assessment:
Content-based image retrieval exploring low- and intermediate-level
image information**

This dissertation addresses content based **image** retrieval, an important topic in information management. The goal of content based **image** retrieval is to automatically extract and represent the content of **images** with appropriate descriptors. These descriptors are then used for retrieval and browsing of **image** data. The ultimate goal is a content extraction with a sophistication and versatility comparable to that of humans. To solve this complex task content based **image** retrieval research focuses on two major areas: (1) the development of effective and stable...

...combined by a non-linear comparison scheme are stable and effective for similarity assessment of **image** content. The validation of this assertion is carried out theoretically and experimentally. Thereby three areas...

...of retrieval algorithms. The performance evaluation statistically compares the ranking of relevant data retrieved by **different** algorithms. For this purpose, the relevant data are compiled in target sets. Depending on the...

...the manner in which it captures and represents the configuration of salient regions in an **image**. An important feature of this model is its invariance to special groups of **image** signal transformations. The computation of the descriptor consists of three steps: (1) extraction of...

...invariants. Each of these steps is elaborated and explained. Contributions on these topics are: a **parameter** free region selection algorithm, a **color** descriptor, a rotation invariant texture descriptor and invariant scene descriptors.

Furthermore, linear and non-linear...

...between descriptors are studied. A non-linear scheme is proposed in order to effectively combine **different** descriptor models. This non-linear scheme depends upon the occupation density in the descriptor space. The estimation of the density exploits the underlying data structure used to **store** the descriptor **values**. This non-linear scheme is compared experimentally with other non-linear schemes.

The constructions of...

...transformation groups. The framework can easily be adapted to other problems in computer vision.

The **different** descriptor models are combined with the non-linear scheme to a content based **image** retrieval system that exploits the query by example paradigm. The system makes no model nor object assumptions allowing, therefore, to **integrated** the proposed methods in a wide variety of content based **image** retrieval systems.

38/3,K/32 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01641374 ORDER NO: AAD98-31519

**A VIDEO CODER BASED ON SCENE CONTENT AND VISUAL PERCEPTION
(CONTENT-BASED CODING , PERCEPTUAL RATE CONTROLLER)**

Author: SCHUMEYER, RICHARD PHILIP

Degree: PH.D.

Year: 1998

Corporate Source/Institution: UNIVERSITY OF DELAWARE (0060)

Source: VOLUME 59/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL

PAGE 1789. 125 PAGES

**A VIDEO CODER BASED ON SCENE CONTENT AND VISUAL PERCEPTION
(CONTENT-BASED CODING , PERCEPTUAL RATE CONTROLLER)**

Transmission of video information over low rate channels remains a difficult problem. Existing video **coding** standards do not provide acceptable spatial and temporal resolution for many applications, including sign language video. Many existing video **coding** techniques are inappropriate or ineffective for **coding** sign language sequences. Sign language shares real-time constraints with traditional video-conferencing, but presents...

...of increased motion and the need for higher frame rate.

We propose a content-based **coding** method in which perceptually important regions in an **image** are identified, and more resources are allocated to these regions. Since face, hands and arms...

...time is presented.

The dynamic segmentation algorithm identifies flesh regions using statistical methods operating on **image color** distributions. A metric for determining the **color** distributions based on classification performance is developed. A method for performing the segmentation in the ...

...space is developed. The method utilizes a look-up table (LUT) to **store** classification results for a subset of possible **color values**. A method for optimizing LUT configuration is also presented. Results of **encoding** sign language sequences using the proposed content-based methods illustrate the improved quality that can be achieved at the same bit rate when compared to a uniform algorithm.

Coding performance may be improved by choosing **coding parameters** based on human visual perception. In this dissertation, we develop a perceptual rate controller (PRC) with several novel features such as: a perception-based **difference** filter; an improved method for predicting the number of **encoded** bits; and an extension to H.263 to allow more flexibility in a macroblock's quantizer **value**. Results are presented that show the improved subjective performance of the PRC. For certain sequences ...

...frame rate is doubled while the subjective spatial quality remains almost the same. Finally, both **coding** methods are combined to demonstrate that the two methods are complementary. The results of the combined **coder** are superior to either method operating alone.

38/3,K/33 (Item 3 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01637006 ORDER NO: AAD98-26367

TRIUNCTIONS IN CRYSTALLINE MATERIALS: A COMPUTER SIMULATION STUDY (GRAIN BOUNDARY)

Author: SRIVILLIPUTHUR, SRINIVASAN GOPALAN

Degree: PH.D.
Year: 1998
Corporate Source/Institution: UNIVERSITY OF WASHINGTON (0250)
Source: VOLUME 59/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 1316. 149 PAGES

...computers offer a cost-effective way to dramatically increase the scope and accuracy of MD. **Keeping** this emerging scenario in mind, we set and realized a two fold goal, (i) to develop an efficient large-scale parallel MD **code** for atoms interacting via short-range forces, and (ii) to apply our MD method to...

...the structure and energetics of trijunctions (TJ) in a FCC polycrystal. Using our parallel MD **code**, we performed atomistic simulations of a three dimensional, periodic Lennard-Jones polycrystalline system and found that the TJ line energies can have a negative **value**, in agreement with the suggestion of J. W. Gibbs. Our system consisted of three FCC... TJ's also along $\langle 100 \rangle$, with symmetries m , 3 and $3m$ in the **color** group terminology of Cahn and Kalonji. Associated with these TJ's are three 30° ...

...STGB's in our polycrystals are similar to those in pure bi-crystals. Minor structural **differences** can be **attributed** to an additional constraint in polycrystals arising from their inability to relax by optimizing the...

...S.
We also describe our dynamical-domain-decomposition parallel MD method, wherein the computations for **different** regions of space are dynamically assigned to **different** processors. Benchmark simulations on a standard Lennard-Jones problem, containing up to 5 million atoms...

...of processors. A significant speedup is achieved by eliminating the usual test for the minimum **image** criterion, using conditional statements, that is applied to all pairs during the force computation. Instead...

38/3,K/34 (Item 4 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01620761 ORDER NO: AADNQ-23965

THE DISCOURSE OF DIFFERENCE : THE REPRESENTATION OF BLACK AFRICAN CHARACTERS IN ENGLISH RENAISSANCE DRAMA

Author: MAZIMHAKA, JOLLY MARY GORETTI RWANYONGA
Degree: PH.D.
Year: 1997
Corporate Source/Institution: THE UNIVERSITY OF SASKATCHEWAN (CANADA) (0780)
Source: VOLUME 58/12-A OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 4669. 275 PAGES
ISBN: 0-612-23965-9

THE DISCOURSE OF DIFFERENCE : THE REPRESENTATION OF BLACK AFRICAN CHARACTERS IN ENGLISH RENAISSANCE DRAMA

...the scholarly community to challenge the stereotype as a major organising principle in shaping negative **images** of African dramatic characters. My argument is that the stereotype is a powerful tool in...

...in Renaissance drama reveal.

Chapter One reviews the history of European attitudes to black skin **colour** , focusing briefly on England's public displays of other nations, cultures, and people, on the...

...aesthetic and moral aspects of otherness, and attempts to show how the stereotypical assumptions and **value** judgments **encoded** in the rhetoric of blackness are allegorically manipulated to suit the needs of Christian England...

...characters on the stage becomes a sign of an entire set of actual and imagined **differences** by which England constructs her view of Africans as prime, visible signifiers of cultural **difference** . Chapter Four goes a step further and looks at those dramatic texts in which seemingly...

...able to define, produce, and maintain itself as superior, it must, of necessity, strive to **keep** the other in a position of chronic inferiority, hence the persistent appeal to stereotypes.

38/3,K/35 (Item 5 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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758890 ORDER NO: AAD81-23497

A COMPARISON OF ICONIC AND SYMBOLIC INFORMATION PROCESSING CODES ' EFFECTIVENESS IN PRESENTING MATERIAL VIA INSTRUCTIONAL TELEVISION

Author: MEIERDIERCKS, CHARLES KENNETH

Degree: PH.D.

Year: 1981

Corporate Source/Institution: UNIVERSITY OF OREGON (0171)

Source: VOLUME 42/05-A OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 1917. 100 PAGES

A COMPARISON OF ICONIC AND SYMBOLIC INFORMATION PROCESSING CODES ' EFFECTIVENESS IN PRESENTING MATERIAL VIA INSTRUCTIONAL TELEVISION

...prompted by remarks made by Wilbur Schramm: "If we understood this process fully, informational processing **codes** , we would understand more than we do about learning from the media" (1977, p. 13...

...modes of information processing; iconic and symbolic, when used in a televised lesson, caused a **difference** in performance of a specified task, that of creating a visual design characterized by good balance, effective use of **color** , and appropriate lettering.

The material to be taught was a lesson on layout design principles. The principles were divided into three basic areas: use of balance, use of **color** , and use of lettering. Two television tapes were made. One, which represented the symbolic information processing **code** , contained verbal instructions, demonstrations involving manipulations of space and mass to illustrate balance in layout and **color** relationships, and some rough examples of balance and **color** principles in a layout. The appropriate use of **different** types of lettering was described and illustrated.

A second video tape represented the iconic information processing **code** . It contained 70 slides of completed layout designs gathered from magazines and from books on award winning **graphic** designs. A restrained use of symbols as exemplified by language was achieved by **keeping** printed matter to seven words and no "voice over" commentary. Most of the layout design...

...to 6-second glimpse of the layout, only enough time for a general impression of **color** and overall balance of the design without being permitted time for a conscientious study. The...

...The judges validated the respective tapes as being representative of iconic and symbolic information processing **codes**.

The subjects were 81 students enrolled in an educational media class at the University of...

...sketch. Forty-three of the students were randomly assigned to watch the iconic information processing **coded** tape, and 38 subjects were randomly assigned to view the symbolic video tape. At the...

...sketch, pre- or post-video tape, demonstrated a better sense of balance, good use of **color**, appropriate lettering, and effort. The results of their judgments showed that there was a statistically significant **difference** (p. 001) for the **color**, lettering, and effort components of layout design between the pre- and posttest sketches for those students who had watched the iconic video tape presentation. Balance was significantly **different** at the p .05 level. The percentage of change between the total score **values** for the pre- and post-iconic test were 37 percent for the balance criterion, 209 percent for the **color**, 101 percent for the lettering, and 68 percent for the effort criterion. All changes were in a favorable direction.

For those students who viewed the symbolic information processing **coded** video tape, **differences** between the pre- and posttest for the criteria tested were not statistically significant at the...

...the scores for the pre- and post-symbolic video tape sketches were: balance, 2 percent; **color**, 21 percent; lettering, 4 percent; and effort, 30 percent. Changes for balance and lettering were...

38/3,K/36 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

04051446 JICST ACCESSION NUMBER: 99A0433013 FILE SEGMENT: JICST-E
A New Method for Direct and Instantaneous Measurement of Skin Texture.
SHINMOTO KOICHI (1); HONDA TSUNENORI (2)
(1) Kose Kisoken; (2) Tokyo Univ. of Agric. and Technol.
Nippon Keshohin Gijutsusha Kaishi(Journal of SCCJ), 1999, VOL.33,NO.1,
PAGE.48-58, FIG.18, REF.16
JOURNAL NUMBER: S0078ACR ISSN NO: 0387-5253
UNIVERSAL DECIMAL CLASSIFICATION: 665.58 616-073:612-087
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

...ABSTRACT: and skin texture is crucial to this evaluation. In recent years, many methods based on **image** processing for measuring skin surface characteristics have been proposed. However, conventional methods have many problems. Some measure only skin replicas and some **require keeping** test subjects for long period of time. There is clearly a lack of quick and...

...is proposed here. This method involves direct measurement of the skin. From multiple monocular gray **images** recorded under various optical conditions, 3D shapes of the skin texture are reconstructed through

image processing that is derived from **integration** of normals over the entire surface. With conventional methods, it is impossible to accurately reconstruct...

...complex 3D shapes from theoretical solutions based on vector equation. When the object is multi- **colored** , this method permits reconstruction of the shape from estimation of reflectance using new restricting conditions...

...To increase the speed of measurements, a new method was devised to simultaneously process multiple **images** recorded in **color** , categorizing them by wavelength, using our new equation to avoid the problems in **color** of objects. A new measurement system has been constructed from our theory and tested on **different** specimens. The new device **required** only 0.03s for each **image** recording and the average square error of reconstruction was only 0.0026. Clearly, this method...

...DESCRIPTORS: **image** analysis...

... **image** reconstruction

...BROADER DESCRIPTORS: **image** processing

38/3,K/37 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01072538 JICST ACCESSION NUMBER: 90A0673810 FILE SEGMENT: JICST-E

Image coding **schemes for hard copiers.**

OKA KEN'ICHIRO (1); AGUI TAKESHI (2); NAKAJIMA MASAYUKI (2)

(1) Mitsubishi Electric Corp.; (2) Tokyo Inst. of Technology, Faculty of Engineering, Imaging Science and Engineering Lab.

Nippon Insatsu Gakkaishi(Bulletin of the Japanese Society of Printing Science and Technology), 1990, VOL.27,NO.3, PAGE.290-298, FIG.7, TBL.5, REF.11

JOURNAL NUMBER: G0233ABD ISSN NO: 0914-3319

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

Image coding **schemes for hard copiers.**

ABSTRACT: Recently, **image** hard copiers print tens of mbytes of **image** data. Hard copiers, therefore, **require** large capacity of built-in frame memories to temporarily **store** input **image** data. Then memories cost expensive, **image** compression techniques are **required** . In addition to high compression ratio, two concepts were considered to study **image coding** schemes for hard copiers; i.e. (1) high-speed processing, (2) application for an **image** edition. Considering these concepts, we proposed 2 types of **coding** schemes: the DPCM (Differential Pulse **Code** Modulation) type and the GBTC (Generalized Block Truncation **Coding**) type. Both types transform the R, G and B data to luminance Y and **color differences** I and Q to subsample I and Q for which the human vision system has...

...were replaced by an integer-type approximation to process speedily. Moreover, both schemes generate fixedlength **codes** to edit **images** easily. Computer simulation results showed that test **images** with 24bits/pel were reduced to 6bits/pel by the DPCM-type scheme and

4.5bits/pel by the GBTC-type scheme with good quality of restored
images . (author abst.)
DESCRIPTORS: **picture** signal...

... **coding** (signal

38/3,K/38 (Item 3 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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00862929 JICST ACCESSION NUMBER: 89A0170183 FILE SEGMENT: JICST-E
Error-free image compression using gray scale quadtrees.
DUERST M J (1); KUNII T L (1)
(1) Univ. Tokyo, Tokyo, JPN
Tech Rep Dep Inf Sci Fac Sci Univ Tokyo, 1988, NO.88-24, PAGE.18P, FIG.10,
TBL.1, REF.25
JOURNAL NUMBER: J0068AAT
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3
LANGUAGE: English COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Technical Report
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

Error-free image compression using gray scale quadtrees.

...ABSTRACT: scale Depth First expression, as a method for the error-free
compression of gray scale **images** . It is based on the combined
concepts of spatial hierarchical subdivision and gray scale
hierarchical...

...spatial hierarchical subdivision is based on the quadtree data
structure. Quadtrees are widely used for **image** representation because
they condense uniform areas and concentrate on processing the most
interesting parts of an **image** . The above fact holds true for binary
images , but has been strongly doubted for gray scale **images** . The
most efficient way to **store** a binary quadtree is the depth first
expression proposed by Kawaguchi in 1980, resulting from a depth first
traversal of the tree. To achieve better compression for gray scale
images , we introduce the concept of the bitwise condensed quadtree,
where not whole pixel **values** are compared to decide condensation, but
starting from the most significant bit, every bit is treated
separately. This allows compact **coding** of large areas where pixel
values are similar, but not the same. GDF then results from a depth
first traversal of...

...not limited to pure depth first order. This promises to be useful for
applications as **different** as progressive transmission and **image**
segmentation and allows fast hardware implementation. Experiments have
shown that this method compares well with other methods of error-free
image compression.(author abst.)

DESCRIPTORS: computer **graphics** ; ...

...halftone **image** ; ...
... **image** compression...

... **coding** (signal...

... **color image** ;
BROADER DESCRIPTORS: **image** technology...

... image ; ...

... image processing

38/3,K/39 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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00529414 M91094329666

Device for inspecting quality of printed matter and method thereof
(Apparat zur Untersuchung von Drucksachen und entsprechendes Verfahren)
Inde, A; Ebihara, H
Komori Corp., Sumida-ku Tokyo, J
1991
Document type: European patent application Language: English
Record type: Abstract

ABSTRACT:

...inspection device for a printed matter for processing a sharp density changing area of reference **image** information of a reference printed matter by an edge control circuit to determine the presence of a defect of inspection **image** information of an inspected printed matter, comprising an edge control circuit having: a Sober differentiation circuit for weighting peripheral **picture** elements relative to a central **picture** element of said reference **image** information and **adding differences** between the upper and lower sides and between the right and left sides of said central **picture** element to obtain a Sober differential **value** of said central **picture** element, a comparator for comparing output of said Sober differentiation circuit with a setting **value**, and an edge memory for **storing** information whether or not said central **picture** element is said sharp density changing area. (No obligations as to scope of patent protection...

DESCRIPTORS: QUALITY INSPECTION; **COLOUR** DENSITY; MESSAGE; DATA MEMORY

38/3,K/40 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
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14490817 PASCAL No.: 00-0153323

Compressed-domain video segmentation using wavelet transformation
Applications of digital image processing XXII : Denver CO, 20-23 July 1999

HONG HEATHER YU
TESCHER Andrew G, ed
Panasonic Information and Networking Technology Lab, Unknown
International Society for Optical Engineering, Bellingham WA, United States.
Applications of digital image processing. Conference, 22 (Denver CO USA) 1999-07-20
Journal: SPIE proceedings series, 1999, 3808 140-147
Language: English

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Applications of digital image processing XXII : Denver CO, 20-23 July 1999

...transformation based on the following consideration: wavelet is a nice tool for subband decomposition, it **encodes** both frequency and spatial

information; more over, it is easy to program and fast to execute. In the last decade or so, wavelet transform is emerged to **image** /video signal processing for analyzing functions at **different** levels of details. In particular, wavelet, as a tool, has been widely used in the area of **image** compression. In **image** compression, it is possible to recover a fairly accurate representation of the **image** by **saving** the few largest wavelet coefficients (and throwing away part or all of the smaller coefficients). By using this property, we extract a discrimination signature of each **image** from a few large coefficients for each **color** channel. The system works on the compressed video that does not **require** full decoding of the video and performs a wavelet transformation on the extracted video data...

English Descriptors: **Image** processing; Digital processing; Video signal; Data compression; Segmentation; Automatic indexing; Wavelet transformation; System architecture; Algorithm...

French Descriptors: Traitement **image** ; Traitement numerique; Signal video; Compression donnee; Segmentation; Indexation automatique; Transformation ondelette; Architecture systeme; Performance algorithmes...

Spanish Descriptors: Procesamiento **imagen** ; Tratamiento numerico; Senal video; Compresion dato; Segmentacion; Indizacion automatica; Transformacion ondita; Arquitectura sistema; Resultado algoritmo...

38/3,K/41 (Item 2 from file: 144)
DIALOG(R) File 144:Pascal
(c) 2004 INIST/CNRS. All rts. reserv.

13182146 PASCAL No.: 97-0445651
Color , **complex document segmentation and compression**
Document recognition IV : San Jose CA, 12-13 February 1997
HEI TAO FUNG; PARKER K J
VINCENT Luc M, ed; HULL Jonathan J, ed
Samsung Semiconductor, Inc., 3655 North First Street, San Jose, CA 95134
, United States; Electrical Engineering Dept., University of Rochester,
Rochester, NY 14627, United States
International Society for Optical Engineering, Bellingham WA, United States.
Document recognition. Conference, 4 (San Jose CA USA) 1997-02-12
Journal: SPIE proceedings series, 1997, 3027 180-191
Language: English

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Color , **complex document segmentation and compression**
... algorithm called SMART (Segmentation by subjecting Macroblocks of Active Regions to the binarizability Test) for **color** , complex documents. It decomposes a document **image** into "binarizable" and "non-binarizable" components. The segmentation procedure includes **color** transformation, halftone texture suppression, subdivision of the **image** into 8x8 blocks, classification of the 8x8 blocks as "active" or "inactive," formation of macroblocks...

... segmentation algorithms: CRLA, SUP 1 RXYC, SUP 2 and SPACE. SUP 3 SMART can handle **image** components of various shapes, multiple backgrounds of **different** gray levels, **different** relative grayness of text to its background, tilted **image** components, and text of **different** gray levels. To compress the segmented **image** , we apply JPEG SUP 4 to the non-binarizable macroblocks and the Group 4 **coding** scheme SUP 5 to the

binary **image** representing the binarizable macroblocks and to the bitmap **storing** the configuration of all macroblocks. Data about the representative gray **values** , the **color** information, and other descriptors of the binarizable macroblocks and the background regions are also sent to allow **image** reconstruction. The gain in using our compression algorithm over using JPEG for the whole **image** is significant. This gain increases as the proportion of the size of the binarizable macroblocks and the background regions to the **image** size increases. Psychovisual experiments also show that the subjects prefer the reconstructed **images** from our compression algorithm to those from the bitrate-matching JPEG **images** . In a series of test **images** , this document segmentation and compression system enables compression ratios two times to six times improved...

English Descriptors: Electronic document; Complex system; **Color image** ; Segmentation; Compression; **Image** processing; Classification; **Image** reconstruction

French Descriptors: Document electronique; Systeme complexe; **Image** couleur; Segmentation; Compression; Traitement **image** ; Classification; Reconstruction **image**

Spanish Descriptors: Documento electronico; Sistema complejo; **Imagen color** ; Segmentacion; Reconstruccion **imagen**

38/3,K/42 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00495305 98MA05-009

EdgeWizard ably creates clean masks -- Strong tools can handle most edge-blending

Fraser, Bruce

MacWEEK , May 4, 1998 , v12 n17 p11-12, 2 Page(s)

ISSN: 0892-8118

Company Name: Chroma **Graphics**

URL: <http://www.chromagraphics.com>

Product Name: EdgeWizard 1.0

Company Name: Chroma **Graphics**

... 99), a plug-in for Adobe Photoshop that handles edge spills around masks, from Chroma **Graphics** Inc. of Burlingame, CA (650). Says the program does not **require** the user to **keep** track of inside and outside **colors** . (650). Says it **integrates** seamlessly with MagicMask so that the user can switch between the two plug-ins without...

...zooming and panning tools, and lets the user display masked and unmasked selections in many **different** . Says this is an economically sound buy and is a powerful semiautomatic tool. Maintains, however, the unusual tool **parameters** take some getting used to. Concludes this program is a winner. Receives four diamonds in...

Descriptors: **Graphics** ; **Color** ; Plug-ins; **Integrated** Software; **Image** Processing

Identifiers: EdgeWizard 1.0; Chroma **Graphics**

38/3,K/43 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00390825 95DD07-008

The popularity algorithm

Clark, Dean

Dr. Dobb's Journal , July 1, 1995 , v20 n7 p121-127, 5 Page(s)

ISSN: 1044-789X

Company Name: Dean Clark

Product Name: popular.c; AddColorToList

Presents a C program listing, called AddColorToList, that selects the 256 **colors** that are most representative of a particular **image**, then maps the **colors** in the **image** to those representatives. Explains that this **color** quantization problem has been implemented by means of the "popularity algorithm", which uses the most-frequently occurring **colors** in the **image** as the palette **colors**. Indicates that the steps in this algorithm are: scan the **image**, building a list of all its **colors**; sort the **colors** by count, then select the top 256 **colors** for the palette map; and rescan the **image** to map **image colors** to palette **colors**. Attention is given to **storing** each **color**; building the quantized **color image**; vector basics; converting each **image RGB value** to VGA; reducing **color** resolution; and sampling from **different** regions in the **color** cube. **Code** for popular.c, the superset of AddColorToList, is available online and on disk. Includes five screen displays, one **code** listing, one diagram, and one sidebar. (jo)

Descriptors: **Color**; **Image Processing**; Algorithm; Program Listing

38/3,K/44 (Item 3 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00352074 94IW06-222

Delta version 1.0

DelRossi, Robert A

InfoWorld , June 20, 1994 , v16 n25 p93-94, 98, 3 Page(s)

ISSN: 0199-6649

Company Name: Microsoft

Product Name: Delta

... for one user), a software version control package from Microsoft Corp. of Redmond, WA (206). **Requires** an 80386-based IBM PC compatible with 4MB RAM, 5MB hard disk space, MS-DOS...

...that Delta is easy to set up and to use; it has a well-designed **graphical** user interface; and it displays **differences** in versions using a **color - coded** file viewer window. Notes that the user can automatically **add** existing files to a new project; and that this program can **store** binary files with a project. Indicates that Delta offers several ways of identifying a module...

... files in Assembler, Basic, C, C++, and Fortran. Also notes that Delta works well, and **integrates** well with other Windows development environments. However, says this program does not offer much more...

38/3,K/45 (Item 4 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00333191 93MW12-010

PageMaker vs. XPress: The rematch -- MacWorld weighs the strengths and weaknesses of the two publishing giants

Roth, Steve

Macworld , December 1, 1993 , v10 n12 p136-144, 9 Page(s)

ISSN: 0741-8647

Lists the **differences** between PageMaker 5.0 and Aldus QuarkXPress 3.2 which concern: pages and pasteboard; page elements; **add** -on modules; files, windows, opening and **saving** ; source-file management; palettes, tools and controls; pages, master pages, and spreads; zooming and moving...

... and guides; long documents; scripting; interchanging with Windows versions; lines, boxes, ovals, and polygons; imported **graphics** ; grouping, locking, alignment and distribution; in-line/ **attached** elements and paragraph rules; word processing; spell checking; type **attributes** ; kerning; and 11 other items classified under Text and Type, and **Color** . Enumerates new features of the two programs. Tabulates **different** features unique to each product. Includes four screen displays, a table, and a drawing. (tbc)

38/3,K/46 (Item 5 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00318533 93PI07-009

Quicture squeezes, speeds graphics in WinWord files

Mendelson, Edward

PC Magazine , July 1, 1993 , v12 n13 p48, 1 Page(s)

ISSN: 0888-8507

Company Name: WexTech Systems

Product Name: Quicture

Quicture squeezes, speeds graphics in WinWord files

Presents a favorable review of Quicture version 1.0 (\$59), an **add** -in utility for Word for Windows from WexTech Systems Inc., New York, NY (212). The program **requires** 2MB RAM (4MB recommended), Microsoft Word for Windows 2.x, and Windows 3.0 or later. The program speeds working with WinWord **graphics** by removing **graphics** from a document, **storing** them on disk as compressed files, and replacing them with generic-looking frames that show a description of the **image** rather than the **image** itself. File compression ratio is approximately 10 to 1 and it works only on 16- or 256-**color graphics** . In testing, large metafiles sometimes were restored to a document in sizes **different** from the original. The program provides good error recovery capability 'and nothing does more to speed viewing and editing of WinWord files with **graphics** in them.' Includes one screen display. (djd)

38/3,K/47 (Item 6 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00246894 91MA08-205

In brief: JAG; Active Memory

Murie, Michael; Michel, Steve

MacWEEK , August 20, 1991 , v5 n29 p36, 1 Page(s)

ISSN: 0892-8118

Company Name: Ray Dream; Translatum International

Product Name: JAG; Active Memory

... 149), a personal-reminder manager program from Translatum International Inc. of Austin , TX (512). JAG **requires** 2 MB memory and System 6.0.5 or greater with 32-bit QuickDraw, and...

... aliasing to PICT or PICS files; users can also define the minimum inter-pixel brightness **difference** before anti-aliasing will occur, and can change the **color** depth of a document when **saving** it. Says Active Memory allows the user to set reminders for himself or send them...

...network, and that its Calendar window is well-designed, there is an Info column for **adding** short messages to reminders, and the user can **add** new types of memos. Contains one illustration. (jo)

Descriptors: **Color Graphics** ; Calendar; Software Review

38/3,K/48 (Item 7 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00205136 89TE11-006

Exploring Measurement, Time, and Money - Level 1

Dana, Ann

Teaching and Computers , November 1, 1989 , v7 n3 p58-59, 2 Pages

ISSN: 0738-6087

... skills: how to measure, tell time and count money, from IBM Corp. of Dayton, OH. **Requires** IBM PS/2 Model 25 or 30 with 512K RAM, DOS 3.0 or higher, **color** monitor, speech adapter, and mouse. Says the program has excellent **graphics** , and, by **integrating graphics** , manipulatives, and sound, it touches on the ways **different** children learn - visually, kinesthetically, auditorily - to create an excellent math tool for young students. Includes four program options - Measure It, Talking Clock, Money Board, and Sticker **Store** - each of which provides a number of activities for students to learn and practice various...

38/3,K/49 (Item 1 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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06218502 SUPPLIER NUMBER: 63903029

Toast day the right way JANE GARVEY'S WINE GUIDE

Garvey, Jane

Atlanta Journal the Atlanta Constitution, p H.3

Nov 16, 2000

NEWSPAPER CODE: ATCJ

DOCUMENT TYPE: Commentary; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

ABSTRACT: **Photo** A glass of wine. **Graphic** Label description Antonio Barbadillo Pale Cream Sherry NV Jerez de la Frontera, Spain Full-bodied sweet white wine with a pale yellow **color** . Aromas of caramelizing sugar, with sweet white peach flavors touched by caramel. Acidity **keeps** the wine from being cloying. Good, clean, long finish. Grapes are Palomino and Mistella. A good **value** . Serve chilled, about 50 degrees, or some prefer on the rocks (not me). You pick...

...used with dessert: ice creams, simple cookies and not-too-sweet fruit desserts. Grade price/ **code** * B+ \$9 JnK Label description Tualatin Estate

Pinot Blanc 1998 Oregon Medium-bodied very slightly off-dry white wine with a very pale straw **color** . Very fine aromas and flavors of white fruits with a slightly honeyed back note. Light mineral accent. Clean, long finish. Slight **residual** sugar, and decent acidity. Pinot Blanc blended with some Auxerois. Serve lightly chilled, about 55...

38/3,K/50 (Item 1 from file: 248)
DIALOG(R) File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00392831 Pira Acc. Num.: 20016312

Title: INFINITE NUMBER OF WAYS TO VARY THEMES

Authors: Brooks G

Source: Packag. Week vol. 10, no. 16, 15 Sept. 1994, p. 32

ISSN: 0267-6117

Publication Year: 1994

Document Type: Journal Article

Language: English

...Abstract: it is increasingly viable for smaller companies to employ in-house variable data labelling systems, **saving** costs on outsourcing. Benefits include shorter lead times for JIT deliveries, reduced label stocks, full control of data and design, direct quality control, potential for incorporating variable **colour graphics** , and return on investment. With advanced labelling software design, **different** areas of activity can be separated. Companies such as Episys offer a training and support service, beneficial to small companies. Episys also provided comprehensive information on Health and Safety Executive **requirements** .

Section Headings: Labelling marking **coding** and overprinting (3752)

38/3,K/51 (Item 2 from file: 248)
DIALOG(R) File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00147859 Pira Acc. Num.: 7020688 Pira Abstract Numbers: 02-86-02397

Title: PLAYING FOR KEEPS

Authors: Anon

Source: Offset Print. Reprogr. no. 209, June 1986, pp 42-43

ISSN: 0263-4384

Publication Year: 1986

Document Type: Journal Article

Language: English

Title: PLAYING FOR KEEPS

Abstract: The stages necessary to produce a business form using the Kodak Ektaprint Electronic Publishing System (**KEEPS**) and the use of Kodak's Accent **Colour** facility for enhancing the form with **colour** are described. The stages include a rough plan of the way the form is to be created, creating a document of the right size on the **KEEPS graphic** workstation, creating the form in the **graphics** mode using a pop-up menu, duplicating, resizing and grid alignment of the boxes, shading the background, creation of separations for two- **colour** reproduction, reproducing the separation the **required** number of times on a high-volume Kodak copier and **adding** the second **colour** using the other separation and a **different** **colour** ink. Copies are automatically stacked in the finisher of the copier and can be collated...

Trade Names: **KEEPS**

...Descriptors: **COLOUR** ; ...

... GRAPHIC ; ...

... GRAPHICS ; ...

...TWO- COLOUR ;

38/3,K/52 (Item 3 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00109636 Pira Acc. Num.: 5321765 Pira Abstract Numbers: 02-83-02077
Title: THE HEIDELBERG CPC SYSTEM UNDER THE ASPECTS OF PROCESS TECHNOLOGY AND ECONOMICS
Authors: Kipphan Dr Ing H
Source: Export Polygraph Int. vol. 31, no. 3, May/June 1983, pp 16-19
ISSN: 0343-5199
Publication Year: 1983
Document Type: Journal Article
Language: English

...Abstract: the ink duct; CPC-1 control console; CPC-2 quality control and CPC-3 plate **image** reader is described explaining how the CPC components combine and the main tasks of the system. The modular design enables the control console to be built up on three **add** -on steps and when equipped with cassette drive and lightpen its programmes are said to offer several possibilities for **saving** makeready time and presetting ink for repeat jobs on the basis of previously recorded data. The plate **image** reader calculates the ink **requirements** for the run. The quality control checks solid density; dot gain; contrast; slur and ink trapping and may be used for several presses running **different** jobs. The available quality control strips for up to six **colours** are mentioned. A practical explanation is given of the optical; electrical and printout linking to...

...Descriptors: **COLOUR** ; ...

... **IMAGE** ; ...

... **SAVING** ;
Section Headings: **Graphic** reproduction (2004)

38/3,K/53 (Item 4 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00081032 Pira Acc. Num.: 40807102
Title: DIGITAL COLOR MATRIX FOR A DIGITAL TELEVISION RECEIVER
Authors: Ader Joseph R
Patent Assignee: RCA CORPORATION
Patent Number: US 4542402
Application Date: 850917
Document Type: Patent
Language: unspecified

Title: DIGITAL COLOR MATRIX FOR A DIGITAL TELEVISION RECEIVER
Abstract: In a digital television receiver, a digital signal processing system generates samples of binary **coded color** mixture digital signals that are a representation of **color picture** information. The **values** of binary **coded** coefficients that convert the representation of the **color**

picture information into binary **coded color difference** signals are stored in a memory accessed by a microprocessor. In response to adjustment of...

... and tint, the microprocessor modifies the coefficients. The modified coefficients are placed in a digital **store** such as a latch arrangement. A multiplier arrangement receives samples of the **color** mixture digital signals as first inputs for multiplying them by corresponding modified coefficients that are supplied by the digital **store** as second inputs. A clock signal is generated that sequentially clocks out of the digital **store** selected ones of the modified coefficients for developing a sequence of products corresponding to the **color** mixture components of the **color difference** signal. The products are then combined to form samples of the binary **coded color difference** signal.

?

File 344:Chinese Patents Abs Aug 1985-2004/May
(c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200453
(c) 2004 Thomson Derwent

Set	Items	Description
S1	93228	(COLOR? OR COLOUR?) AND (PARAMETER? OR GAMUT? OR VALUE?? OR ATTRIBUTE?? OR REQUIRE?)
S2	21540	(ADJUST OR CHANG? OR MODIF? OR ALTER? OR ADAPT?) AND S1
S3	20658	S1 AND (DIFFERENCE? OR DIFFERENT OR RESIDUAL)
S4	1735036	IMAGE?? OR GRAPHIC?? OR PICTURE? OR PHOTO OR PHOTOS OR PHOTOGRAPH?
S5	617278	PRINTER?? OR PRINTING
S6	22727	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) AND S1
S7	4615	WATERMARK? OR WATER()MARK?
S8	2598	(STORE OR STORING OR SAVING OR KEEP?) AND (S2 OR S3)
S9	1545	(EXTENDED OR LIMITED) AND S1
S10	665	AU=(WEXLER, R? OR BOURDELAIS, R? OR SPAULDING, K? OR BRYAN T, R? OR SUMMERS, D? OR WEXLER R? OR BOURDELAIS R? OR SPAULDING K? OR BRYAN R? OR SUMMERS D?)
S11	1542242	IC=(B41B? OR B41J? OR G06K? OR G06F?)
S12	1865	S6 AND S4 AND S5
S13	174	S12 AND (STORE OR STORING OR SAVING OR KEEP?)
S14	2	S13 AND (EXTENDED OR LIMITED)
S15	44	S10 AND (S2 OR S3)
S16	22	S15 AND S11
S17	7	S16 AND AD=20001205:20040819/PR
S18	15	S16 NOT S17
S19	15	IDPAT (sorted in duplicate/non-duplicate order)
S20	15	IDPAT (primary/non-duplicate records only)
S21	31	(S2 OR S3) AND S7 AND S4
S22	6	S21 AND (STORE OR STORING OR SAVING OR KEEP?)
S23	6	S22 NOT (S16 OR S14)
S24	2	S23 AND AD=20001205:20040819/PR
S25	4	S23 NOT S24

14/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011234399 **Image available**
WPI Acc No: 1997-212302/199719
XRPX Acc No: N97-175170

Image on display to image on printed medium matching - storing
pixels in linear lumen space with added biasing and pixels correspond
to values of red, green, and blue

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: EDGAR A D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5617116	A	19970401	US 94358227	A	19941216	199719 B

Priority Applications (No Type Date): US 94358227 A 19941216

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5617116	A	13	G09G-005/02	

Image on display to image on printed medium matching...

... storing pixels in linear lumen space with added biasing and pixels
correspond to values of red, green, and blue

...Abstract (Basic): The method involves storing total flare from an
image

...

...proportional to the total flare is then added to the pixels that
entails removing a portion of the biasing from the selected pixels. The
image is displayed on the display system from the biased pixels. A
black is displayed as...

...brightness above zero in response to the removing a portion of the bias.
A relative colour gamut of the display is extended as a function
of the relative negative brightness...

... added in the linear lumen space. The pixels correspond to values of
red, green, and blue. The adding biasing comprises adding the
biasing to the values .

...

...USE/ADVANTAGE - In video colour proofing, for representing on...

... colour monitor screen visual match of image output on colour

...

... printer . Allows editor of artist to work interactively with image in
computer that desired emotional effect has been produced

Title Terms: IMAGE ;

14/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010771180 **Image available**
WPI Acc No: 1996-268134/199627

XRPX Acc No: N96-225455

Image output density maintaining appts for formation visible correlated patterns - has device for deriving first and second quantisation error for each output image signal determined by comparing device

Patent Assignee: XEROX CORP (XERO)

Inventor: FAN Z

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5521989	A	19960528	US 93102330	A	19930805	199627 B
JP 7065162	A	19950310	JP 94174997	A	19940727	199627

Priority Applications (No Type Date): US 93102330 A 19930805

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5521989	A	16	G06K-009/38	
JP 7065162	A	8	G06T-005/00	

Image output density maintaining appts for formation visible correlated patterns...

...has device for deriving first and second quantisation error for each output image signal determined by comparing device

...Abstract (Basic): The appts includes a first memory for storing the input image signals. A device is included for adding to each input image signal $i(m,n)$ stored in the memory error correction signals $\epsilon(m,n)$ to provide corrected image signals $i'(m,n)$ with adjusted density levels that reflect the average density level of the input image. A device for comparing each corrected image signal of the input image to a predefined threshold value T ...

...A second memory is provided for storing the output image signal to be rendered on the output device that is limited to images having L density levels. Further a device is incorporated for deriving first $ef(m,n)$ and second $eb(m,n)$ quantisation error for each output image signal determined by the comparing device. A device is used for propagating the first quantization error of each image signal to a predetermined neighbourhood of input image signals...

...USE/ADVANTAGE - In digital half-tone formation system, fo displaying and printing images black and white and colour.

Title Terms: IMAGE ;

?

20/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014752584 **Image available**
WPI Acc No: 2002-573288/200261
XRPX Acc No: N02-454202

Image modification in digital printer, involves computing coloration
reduction amount of each color channel of pixel, so as to have average
output colorant, to be less than threshold value

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: COUWENHOVEN D W; MILLER R L; SPAULDING K E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6407825	B1	20020618	US 98213637	A	19981217	200261 B

Priority Applications (No Type Date): US 98213637 A 19981217

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6407825	B1	11	G06F-015/00	

Image modification in digital printer, involves computing coloration
reduction amount of each color channel of pixel, so as to have average
output colorant, to be less than threshold value

...Inventor: SPAULDING K E

Abstract (Basic):

... An average colorant amount of each pixel of input image is
determined. A coloration reduction amount of each color channel of
the pixel is computed using average colorant, input colorant and
threshold colorant amounts. An output coloration amount is
determined from dither signal, computed reduction and input coloration
amounts, so as to have an average output colorant amount to be less
than threshold value .

... An INDEPENDENT CLAIM is also included for computer program
product for image modification .

...

...For modifying the digital image during printing using digital printers
such as inkjet, thermal dye transfer, thermal...

...Since the colorant reduction amount of each color channel is
computed, the pixel having removed colorant are specially distributed
in a blue noise pattern. Thus a high quality digital image having
unaffected color hues is obtained...

...The figure shows the block diagram of the colorant reduction amount
generator

...Title Terms: MODIFIED ;

International Patent Class (Main): G06F-015/00

20/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014511459 **Image available**
WPI Acc No: 2002-332162/200237
XRPX Acc No: N02-260862

Information parameters determination method in digital image

processing, involves determining residual image representing difference between extended color gamut digital image and limited color gamut digital image

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: SPAULDING K E ; WOOLFE G J

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1187462	A2	20020313	EP 2001203132	A	20010817	200237 B
JP 2002118767	A	20020419	JP 2001261681	A	20010830	200243
US 6754384	B1	20040622	US 2000651510	A	20000830	200442

Priority Applications (No Type Date): US 2000651510 A 20000830

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1187462	A2	E	15	H04N-001/60	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

JP 2002118767	A		10	H04N-001/60	
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US 6754384	B1			G06K-009/00	
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Information parameters determination method in digital image processing, involves determining residual image representing difference between extended color gamut digital image and limited color gamut digital image

Inventor: SPAULDING K E ...

Abstract (Basic):

... The color values of the extended color gamut digital image is adjusted to generate a limited color gamut digital image. A residual image representing difference between extended and limited color gamut digital images, is determined and analyzed to determine parameters related to information contained in the residual image.

... For determining information parameter, while processing extended color gamut digital image output from digital camera, processing of computer generated image scanned photographic image in...

...The digital image can be stored in color space convenient for particular application while overcoming the color gamut limitation associated with that color space. Allows to determine what image processing operations are to be given interactively to a...

...The figure shows the flowchart explaining steps involved in the processing extended color gamut digital image...

...Title Terms: PARAMETER ;

International Patent Class (Main): G06K-009/00 ...

20/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014506910 **Image available**

WPI Acc No: 2002-327613/200236

XRPX Acc No: N02-256898

Extended color gamut digital image representation in limited color gamut color space, involves storing information about color adjustment function in storage color space to reconstruct extended color gamut digital image

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: GIORGIANNI E J; MCCARTHY A L; SPAULDING K E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6335983	B1	20020101	US 98162051	A	19980928	200236 B

Priority Applications (No Type Date): US 98162051 A 19980928

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6335983	B1	11	G06K-009/00	

Extended color gamut digital image representation in limited color gamut color space, involves storing information about color adjustment function in storage color space to reconstruct extended color gamut digital image

...Inventor: SPAULDING K E

Abstract (Basic):

... The limited **color gamut** digital image is formed by adjusting the **color values** of the extended **color gamut** digital image, using a **color** adjustment function and represented in the storage **color** space. The information about the adjustment function is stored with the limited **color gamut** digital image in the storage **color** space so as to produce a reconstructed extended **color gamut** digital image.

... b) Computer program product for representing extended **color gamut** digital image in limited **color gamut** space...

...c) Computer program product for representing and manipulating extended **color gamut** digital image using storage **color** space...

...For representing extended **color gamut** digital image such as scanned photograph, scanned photographic negative, scanned photographic transparency, image from digital camera, in limited **color gamut color** space such as video RGB **color** space for digital imaging system

...Permits storage of images in a **color** space having a limited **color gamut**, while retaining the extended **color gamut** information, hence images are stored in a video RGB **color** space that is well **adapted** for fast and convenient display on a computer system without compromising the potential applicability of the image for other uses. The benefits of the extended **color gamut** information is gained by applications that are able to make use of it, without introducing an image quality or computation penalty for applications that do not **require** the optional information, by using the extended **color gamut** information as optimal...

...The figure shows a flowchart explaining limited **gamut** digital image making process...

...Title Terms: **COLOUR** ;

International Patent Class (Main): **G06K-009/00**

20/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014449234 **Image available**
WPI Acc No: 2002-269937/200232
XRPX Acc No: N02-309745

Extended color gamut digital image representation method to represent image on a hard-copy output medium having a limited color gamut

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: **BRYANT R ; SPAULDING K E ; SUMMERS D D ; BRYANT R C**

Number of Countries: 029 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1319987	A	20011031	CN 2001112181	A	20010328	200232 B
EP 1146727	A2	20011017	EP 2001201024	A	20010316	200243
JP 2001320599	A	20011116	JP 200175639	A	20010316	200240
US 6748106	B1	20040608	US 2000537064	A	20000328	200437

Priority Applications (No Type Date): US 2000537064 A 20000328

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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CN 1319987	A			H04N-001/40	
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EP 1146727	A2 E	12		H04N-001/60	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

JP 2001320599	A		9	H04N-001/60	
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US 6748106	B1			G06K-009/00	
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Extended color gamut digital image representation method to represent image on a hard-copy output medium having a limited color gamut

Inventor: **BRYANT R ...**

... SPAULDING K E ...

... SUMMERS D D ...

... BRYANT R C

Abstract (Basic):

... Method comprises of adjusting the **color values** of the extended **color gamut** digital image to fit within the limited **color gamut** of the output medium to form a limited **color gamut** digital image (22).

... This produces a limited **color gamut** output print (24) from the limited image on the hard-copy output medium, determining a **residual** image (26) representing a **difference** between the extended digital image and the limited digital image, and encoding the **residual** image on the output print using a digital encoding means such that the **residual** image and the limited **color gamut** output print are **adapted** to be used to form a reconstructed extended **color gamut** digital image...

...Used to represent extended **color gamut** digital images on a hard-copy output medium...

...Allows for recovery of **color** information within the **color gamut** of a first hard copy to provide further hard-copy prints on **different** hard-copy output devices...

...drawing shows a flowchart of the process involved with making an output print with extended **color gamut** information...

...Title Terms: **COLOUR ;**

International Patent Class (Main): **G06K-009/00 ...**

International Patent Class (Additional): **B41J-002/525 ...**

20/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014335728 **Image available**
WPI Acc No: 2002-156431/200221
XRPX Acc No: N02-119046

Extended color gamut digital image representation in color imaging device, involves associating residual image showing difference between extended digital image and clipped image, with limited image in color space

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: JOSHI R L; **SPAULDING K E** ; WOOLFE G J
Number of Countries: 027 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1118963	A1	20010725	EP 2000109418	A	20000503	200221 B
JP 2001203904	A	20010727	JP 2000140317	A	20000512	200221
US 6301393	B1	20011009	US 2000489367	A	20000121	200221
JP 3550078	B2	20040804	JP 2000140317	A	20000512	200451

Priority Applications (No Type Date): US 2000489367 A 20000121

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1118963	A1	E	21	G06T-011/00	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2001203904	A		12	H04N-001/60	
US 6301393	B1			H04N-001/64	
JP 3550078	B2		15	H04N-001/60	Previous Publ. patent JP 2001203904

Extended color gamut digital image representation in color imaging device, involves associating residual image showing difference between extended digital image and clipped image, with limited image in color space

...Inventor: **SPAULDING K E**

Abstract (Basic):

... The **color values** of the extended **color gamut** digital image (20) is adjusted to fit within the limited **color gamut**. Limited digital image (22) is represented in video RGB **color space**. A **residual image** representing **difference** between the extended **color gamut** digital image and a clipped digital image is determined. **Residual image** is associated with the limited digital image in the **color space**, for forming reconstructed extended **color gamut** digital image.

... In digital **color** imaging device such as scanners, printers and CRT video displays...

...Digital image can be stored in a **color space** convenient for particular application while overcoming the **color gamut** limitation associated with **color space**. The image can be stored in a video RGB **color space** that is well **adapted** for fast and convenient display on computer system without compromising the potential quality of the image. Since the use of the extended **color gamut** information is optional, operation efficiency is improved without introducing an image quality of computation penalty for applications that do not **require** the optional information. Since the use of clipping function during the process of determining the **residual image** reduces the serrations in the **residual image**, the **residual image** is enabled to be more

compressible. Reconstructed images is set to have reduced compression
...

...The figure shows flowchart explaining generation of limited **gamut**
digital image without clipping...

...Extended **color gamut** digital image (20...

...Limited **color gamut** digital image (22...

...Title Terms: **COLOUR** ;

International Patent Class (Additional): **G06F-017/30** ...

20/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014104754 **Image available**
WPI Acc No: 2001-588968/200166
XRPX Acc No: N01-438629

**Digital image representation method for color imaging system, involves
associating residual image with limited color gamut digital image
in storage color space to form reconstructed extended color gamut
digital image**

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: GIORGIANNI E J; MCCARTHY A L; **SPAULDING K E**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6282311	B1	20010828	US 98162026	A	19980928	200166 B

Priority Applications (No Type Date): US 98162026 A 19980928

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6282311	B1	14	G06K-009/00	

**Digital image representation method for color imaging system, involves
associating residual image with limited color gamut digital image
in storage color space to form reconstructed extended color gamut
digital image**

...Inventor: **SPAULDING K E**

Abstract (Basic):

... The **color values** of the extended **color gamut** digital
image is adjusted to form limited **color gamut** digital image which
is represented in storage **color** space. The **difference** between
extended **color gamut** digital image and limited **color gamut**
image is determined to form **residual** image. The **residual** image and
limited digital image are stored in **color** space to form reconstructed
extended **color gamut** digital image.

... For representing digital image for **color** imaging devices such
as scanner, printer and cathode ray tube (CRT) video displays...

...The digital images are stored in a **color** space by overcoming the
color gamut limitations associated with that **color** space...

...The figure shows the flowchart explaining limited **gamut** digital image
making process...

International Patent Class (Main): **G06K-009/00**

20/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013158932 **Image available**
WPI Acc No: 2000-330805/200029
XRPX Acc No: N00-249059

Image capture and processing system for storing images uses standard RGB representation and additional representation that together allow reconstruction of full input

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: GIORGIANNI E J; MCCARTHY A L; SPAULDING K E
Number of Countries: 027 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 991020	A2	20000405	EP 99203025	A	19990916	200029 B
JP 2000152279	A	20000530	JP 99273136	A	19990927	200033
US 6282312	B1	20010828	US 98162201	A	19980928	200151

Priority Applications (No Type Date): US 98162201 A 19980928

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 991020	A2	E	19	G06T-011/00	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
JP 2000152279	A		14	H04N-009/79	
US 6282312	B1			G06K-009/00	

...Inventor: SPAULDING K E

Abstract (Basic):

... Scanners (20) capture images at relatively high resolutions and color gamut (21). The images are processed (28) to produce standard, limited gamut images (26), e.g. sRGB images. In addition a further image (27) is created that is the difference between the input image and the standard image. This difference is stored such that it is related to the standard image (23). Recombining the images restores the extended gamut .
... Image manipulation retaining original gamut
...

...By storing the additional image needed to restore the full input color range, subsequent processes can make use of this data while standard processes only use the standard gamut image...

...Digital image of extended gamut (21...
...Standard gamut image (26...

... Difference image to convert standard to extended gamut image (27
International Patent Class (Main): G06K-009/00 ...

20/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013147978 **Image available**
WPI Acc No: 2000-319850/200028
XRPX Acc No: N00-240064

Digital imaging method for applying manipulations to color digital

image with color values with extended color gamut by modifying
limited color gamut digital and residual images to form modified
limited color gamut digital image

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: GIORGIANNI E J; MCCARTHY A L; SPAULDING K E

Number of Countries: 027 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 991019	A2	20000405	EP 99203024	A	19990916	200028 B
JP 2000115564	A	20000421	JP 99273137	A	19990927	200031
US 6282313	B1	20010828	US 98162205	A	19980928	200151
US 6285784	B1	20010904	US 98162234	A	19980928	200154

Priority Applications (No Type Date): US 98162234 A 19980928; US 98162205 A 19980928

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 991019	A2	E	17	G06T-011/00	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
JP 2000115564	A		15	H04N-001/60	
US 6282313	B1			G06K-009/00	
US 6285784	B1			G06K-009/00	

Digital imaging method for applying manipulations to color digital
image with color values with extended color gamut by modifying
limited color gamut digital and residual images to form modified
limited color gamut digital image

...Inventor: SPAULDING K E

Abstract (Basic):

... The method specifies one or more desired image modifications
to be applied to an extended color gamut digital image. The limited
color gamut digital image (22) is modified and the residual
image(s) (26) are also modified to form a modified limited color
gamut digital image and one or more modified residual image(s) in
response to the specified desired image modifications .

... An independent claim describes a method for representing a
digital image having color values with an extended color gamut
in a storage color space having a limited color gamut . An
independent claim describes a method for modifying a digital image
having color values with an extended color gamut .

...

...As a method of applying manipulations to a color digital image...

...Digital image can be stored in a color space convenient for a
particular application while overcoming the color gamut limitation
associated with that color space...

...The drawing shows a flowchart showing a process for making a limited
gamut digital image...

...the limited color gamut digital image (22...

...the residual image (26

...Title Terms: VALUE ;

International Patent Class (Main): G06K-009/00 ...

20/3,K/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012924006 **Image available**
WPI Acc No: 2000-095842/200008
XRPX Acc No: N00-073944

Calibrating method for determining raw sensitometry of digital printer

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: HADLEY K A; **SPAULDING K E**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5995714	A	19991130	US 96602409	A	19960216	200008 B

Priority Applications (No Type Date): US 96602409 A 19960216

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5995714	A	12	H04N-001/46	

...Inventor: **SPAULDING K E**

Abstract (Basic):

... A test target is processed through a set of potential calibration function formed by applying **modification** to standard calibration function to form a processed test target which is printed as a...

... density levels by allowing the observer only a single selection for the entire tonal range. **Requires** very little knowledge of **color** science by not forcing the observer to choose from a **color** specific slider control or adjustment knob...

International Patent Class (Additional): **G06F-015/00**

20/3,K/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012651663 **Image available**
WPI Acc No: 1999-457768/199938
XRPX Acc No: N99-342413

Digital image and background digital image combining method for digital imaging e.g. for special effects

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: COUWENHOVEN D W; HENDERSON T R; **SPAULDING K E**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5937104	A	19990810	US 97934178	A	19970919	199938 B

Priority Applications (No Type Date): US 97934178 A 19970919

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5937104	A	12	G06K-015/316	

...Inventor: **SPAULDING K E**

Abstract (Basic):

... the background digital image are combined in response to two control signals determined, a key **color** and an illuminant **color** value .

... A control signal that indicates the relative proportions of the foreground **color value** and key **color** for pixels of the digital image, is determined. The digital image is segmented into key **color** and non-key **color** regions. Another control signal that indicates spatial distance between pixel in the digital image and boundary between the key- **color** and non-key **color** regions is determined. An INDEPENDENT CLAIM is also included for the computer program for combining...

...a composite image containing undetectable fringe effects, while minimizing or creating other artifacts. Removes key **color** contamination caused by secondary illumination without causing transparency effects or undesired **alterations** to **color value** of the contaminated pixels. Minimizes the incorrect replacement of the foreground region with the background region when the subject contains **color values** that are similar to those of the key **color**.

International Patent Class (Main): G06K-015/316

20/3,K/11 (Item 11 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

012519904 **Image available**
WPI Acc No: 1999-326010/199927
XRPX Acc No: N99-244498

Method for reducing edge artifacts in digital printers such as thermal dye transfer printers

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: RUEBY C; **SPAULDING K E**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5903681	A	19990511	US 96685740	A	19960724	199927 B

Priority Applications (No Type Date): US 96685740 A 19960724

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5903681	A		11 G06K-009/40	

...Inventor: **SPAULDING K E**

Abstract (Basic):

... **Difference** between center pixel **value** and set of neighboring pixel **values** is determined corresponding to which pixel correction **value** is computed. New center pixel **value** is computed by **modifying** center pixel **value** using pixel correction **value** delta which is computed by the formula $\text{delta} = \max(\text{deltaL}, \text{deltaR}, \text{deltaA}, \text{deltaB})$.
... R-C), approximately $\text{dA} = \text{fA}(\text{A}-\text{C})$, approximately $\text{dB} = \text{fB}(\text{B}-\text{C})$. L-C, R-C is **difference** signal between center pixel and pixel next to left and right of center pixel, respectively. A-C, B-C is **difference** signal between center pixel and pixel above and below center pixel, respectively. fL, fR, fA, fB are functions which process **difference** signals. C is center pixel **value**. L, R is pixel **value** left and right of center pixel. A, B is pixel **value** above and below center pixel...

...such as thermal dye transfer printers, digital silver halide printer, electrophotographic printers, ink jet printers, **color** digital printers...

...Reduces the appearance of edge artifacts on digital printer by computing new pixel **value** by **modifying** center pixel **value** . Reduces artifacts produced on boundary between regions of **different colors** and hence improves reproduction of fine lines in image...
International Patent Class (Main): **G06K-009/40**

20/3,K/12 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012052748 **Image available**
WPI Acc No: 1998-469659/199841
XRPX Acc No: N98-366169

Halftoning digital image method e.g. for digital printers - gives memory with dither bitmap for each input pixel value of digital colour image, bitmaps are partially correlated, selects dither bitmap of input pixel value for pixel in image, addresses bitmap with pixel location to get halftone

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: MILLER R L; **SPAULDING K E**
Number of Countries: 026 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 865195	A2	19980916	EP 98200294	A	19980202	199841 B
JP 10275228	A	19981013	JP 9830203	A	19980212	199851
US 5946452	A	19990831	US 97799954	A	19970214	199942

Priority Applications (No Type Date): US 97799954 A 19970214

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 865195	A2	E	17	H04N-001/405	
Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI					
LT LU LV MC MK NL PT RO SE SI					
JP 10275228	A		11	G06T-005/00	
US 5946452	A			B41J-015/00	

... gives memory with dither bitmap for each input pixel value of digital colour image, bitmaps are partially correlated, selects dither bitmap of input pixel value for pixel in image, addresses bitmap with pixel location to get halftone

...Inventor: **SPAULDING K E**

...Abstract (Basic): The method involves providing a memory containing a dither bitmap for each input pixel **value** of the digital image where the dither bitmaps are partially correlated...

...A dither bitmap is selected corresponding to the input pixel **value** for a pixel in the digital image. The selected dither bitmap (42) is modularly addressed with the location of the pixel to obtain an output halftone image **value** . The foregoing is repeated for each pixel in the digital image...

...ADVANTAGE - Eliminates noise artifacts on boundaries between **different** tone levels without imposing quality compromise associated with correlated dot pattern solution...

...Title Terms: **VALUE** ;

International Patent Class (Main): **B41J-015/00** ...

International Patent Class (Additional): **B41J-002/52** ...

20/3,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011604148 **Image available**
WPI Acc No: 1998-021276/199803
XRPX Acc No: N98-016258

**Halftoning method for multi-channel colour image device - generating
dither matrices for each colour such that groups of matrices are
jointly optimised to reduce modulation**

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: MILLER R L; SCHIDKRAUT J S; **SPAULDING K E** ; SCHIDKRAUT J S

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 812102	A2	19971210	EP 97108442	A	19970526	199803 B
JP 10075376	A	19980317	JP 97144014	A	19970602	199821
US 5822451	A	19981013	US 96658452	A	19960605	199848
US 6091849	A	20000718	US 96658452	A	19960605	200037
			US 98113268	A	19980710	
EP 812102	B1	20020724	EP 97108442	A	19970526	200256
DE 69714149	E	20020829	DE 614149	A	19970526	200264
			EP 97108442	A	19970526	

Priority Applications (No Type Date): US 96658452 A 19960605; US 98113268 A 19980710

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 812102	A2	E	21	H04N-001/40	
				Designated States (Regional): DE FR GB	
JP 10075376	A		16	H04N-001/60	
US 5822451	A			G06K-009/00	
US 6091849	A			G06K-009/00	Div ex application US 96658452 Div ex patent US 5822451
EP 812102	B1	E		H04N-001/40	
				Designated States (Regional): DE FR GB	
DE 69714149	E			H04N-001/40	Based on patent EP 812102

Halftoning method for multi-channel colour image device...

**...generating dither matrices for each colour such that groups of
matrices are jointly optimised to reduce modulation**

...Inventor: SPAULDING K E

...Abstract (Basic): The **colour** image generating system includes
dithering matrices for use with the multi-level, e.g. 2, output device.
In use, each **colour** has its level compared with the matrices and a
dither **value** extracted and used for the output. The dither matrices
are generated such that they are...

...Initially the halftone patterns are generated for each colour .

...

...An optimisation process is used to **modify these matrices such that a
"cost", e.g. luminance modulation, is reduced by **altering** one or
more matrices. The process proceeds level by level, and dither patterns
are **changed** depending upon the previously optimised level **values**
and the next non-optimised level **values** .**

...Title Terms: COLOUR ;
International Patent Class (Main): G06K-009/00 ...
International Patent Class (Additional): B41J-002/52 ...

... B41J-002/525

20/3,K/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010428884 **Image available**
WPI Acc No: 1995-330204/199543
XRPX Acc No: N95-248537

Colour value transformation between colour space for digital
imaging - designates transformation for transforming input colour space
values into output colour space values using user specified
transformation constraint which modifies transformation

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: ELLSON R N; GERSHON R; SPAULDING K E ; SULLIVAN J R
Number of Countries: 005 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 674430	A1	19950927	EP 95420067	A	19950320	199543 B
JP 8030772	A	19960202	JP 9564557	A	19950323	199615
US 6269184	B1	20010731	US 94217785	A	19940324	200146
			US 97866469	A	19970530	

Priority Applications (No Type Date): US 94217785 A 19940324; US 97866469 A
19970530

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 674430	A1	E	11	H04N-001/62	
Designated States (Regional): DE FR GB					
JP 8030772	A		10	G06T-001/00	
US 6269184	B1			G06K-009/00	Cont of application US 94217785

Colour value transformation between colour space for digital
imaging...

...designates transformation for transforming input colour space values
into output colour space values using user specified transformation
constraint which modifies transformation

...Inventor: SPAULDING K E

...Abstract (Basic): The method involves designating a transformation for
transforming input (20) colour space values into output colour
space values . A transformation constraint is interactively user (26)
specified. The transformation is modified (22) using the constraint
...

...The input image colour values in the input colour space are
transformed into output (24) image colour values in the output
colour space via modified transformation. The transformation
constraint specifies one of a subset of constraints among a point, a...

...ADVANTAGE - Allows user to interactively specify constrained mapping of
colours in one colour space into another colour space...

Title Terms: COLOUR ;

International Patent Class (Main): G06K-009/00 ...

20/3,K/15 (Item 15 from file: 347)
DIALOG(R)File 347:JAPIO
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06985435 **Image available**
METHOD FOR PRINTING DIGITAL IMAGE USING A PLURALITY OF COLORING MATTERS
HAVING SUBSTANTIALLY THE SAME COLOR

PUB. NO.: 2001-213009 [JP 2001213009 A]
PUBLISHED: August 07, 2001 (20010807)
INVENTOR(s): COUWENHOVEN DOUGLAS W
SPAULDING KEVIN E
MILLER RODNEY L
APPLICANT(s): EASTMAN KODAK CO
APPL. NO.: 2000-368118 [JP 2000368118]
FILED: December 04, 2000 (20001204)
PRIORITY: 99 455981 [US 99455981], US (United States of America),
December 06, 1999 (19991206)

METHOD FOR PRINTING DIGITAL IMAGE USING A PLURALITY OF COLORING MATTERS
HAVING SUBSTANTIALLY THE SAME COLOR

INVENTOR(s): COUWENHOVEN DOUGLAS W
SPAULDING KEVIN E
MILLER RODNEY L
INTL CLASS: B41J-002/52 ; B41J-002/21 ; B41J-002/01 ; B41J-002/205 ;
H04N-001/23

ABSTRACT

...TO BE SOLVED: To produce a high quality image while minimizing the total quantity of coloring matter, e.g. ink being used and the perceptible roughness of a print image in a digital printer using a plurality of coloring matters of the same color .

SOLUTION: When a digital image having at least one color channel including pixels is reproduced using a digital printer having a set of coloring matters, more than one coloring matter in the set has the substantially same color and a different density. An input code value for a specific color channel is used for controlling the quantity of more than one coloring matter and a lookup table for generating a coloring matter control signal corresponding to individual coloring matter is formed for each coloring matter as a function of the input code value . In order to judge the coloring matter control signal, the lookup table is addressed for each pixel of the digital image and the printer is controlled using the coloring matter control signal at the time of reproducing the image thus controlling the quantity of more than one coloring matter respectively.

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?

25/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014321047 **Image available**
WPI Acc No: 2002-141749/200219
XRAM Acc No: C02-043872
XRPX Acc No: N02-107203

Production of or personalized printing or writing support, e.g.
letter-head or cheque, using information system to ensure that the
personalized mark has not previously been assigned

Patent Assignee: ARJO WIGGINS SA (ARJO)
Inventor: DOUBLET P
Number of Countries: 026 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1174280	A2	20020123	EP 2001401937	A	20010719	200219 B
FR 2812106	A1	20020125	FR 20009604	A	20000721	200219

Priority Applications (No Type Date): FR 20009604 A 20000721

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1174280	A2	F 8	B42D-015/00	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
FR 2812106	A1		G06K-001/22	

Abstract (Basic):

... a personalized printing/writing support involves: (a) setting up
an information system including a data **store** and a data processing
unit, for recording the type of support wanted by the user...

...subsequent command; verifying (during a further command) that the
confidential code has not been previously **attributed** (so that two
different users cannot obtain the same support carrying the same PM);
and (b) forming or delivering...

Technology Focus:

... Preferred Features: PM is an alphanumeric character, logo or
photograph, and is formed by an assembly of microperforations; a
water - mark, print with security ink, etching or other marker visible
or invisible to humans (including rare...

...markers). In addition to PM, the support includes a further security
element such as a **water - mark**, an optically variable or magnetic
element or reactants forming a **color** (under visible or other light)
under the action of ink remover, sodium hypochlorite or more...

25/3,K/2 (Item 2 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013959475 **Image available**
WPI Acc No: 2001-443689/200148
XRPX Acc No: N01-328245

Data embedding apparatus for embedding electronic watermark in image ,
has changing section that selects color existing in pixel information
storing region corresponding to bit value of embedded data for each
pixel

Patent Assignee: HITACHI LTD (HITA)

Inventor: MIURA N; MIYAMOTO Y; SHINODA T
Number of Countries: 026 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1104166	A2	20010530	EP 2000301721	A	20000302	200148 B
JP 2001157030	A	20010608	JP 99337916	A	19991129	200148

Priority Applications (No Type Date): JP 99337916 A 19991129

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1104166	A2	E	12	H04N-001/32	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

JP 2001157030	A		9	H04N-001/387	
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Data embedding apparatus for embedding electronic watermark in image , has changing section that selects color existing in pixel information storing region corresponding to bit value of embedded data for each pixel

Abstract (Basic):

... The editing section (103) divides **color** information **storing** region into number of subregions and edits **color** information, such that respective regions have same **color** information. **Changing** section defines bit **value** for each subregion and selects **color** existing in pixel information **storing** region corresponding to a bit **value** of embedded data for each pixel.

... a) Data embedding method for embedding data into **image** data...

...For embedding electronic **watermark** in **image** recorded in recording medium...

...Since **color** existing in pixel information **storing** region corresponding to bit **value** of embedded data for each pixel is selected, large amount of information is embedded into an **image** of relatively small size composed of simple shapes and small number of **colors** without causing a degradation in **image** quality...

...Title Terms: **WATERMARK** ;

25/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013539142 **Image available**

WPI Acc No: 2001-023348/200103

XRPX Acc No: N01-018150

Processor controlled machine operating method involves storing message value paired with updated signal block by determining which one of updated valid signal block data structure is identical to received signal block data structure

Patent Assignee: XEROX CORP (XERO)

Inventor: CASS T A; TONG X

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6141441	A	20001031	US 98162257	A	19980928	200103 B

Priority Applications (No Type Date): US 98162257 A 19980928

Patent Details:

Processor controlled machine operating method involves storing message value paired with updated signal block by determining which one of updated valid signal block data...

Abstract (Basic):

... **Color difference** quantity for average **color value** of received signal cell is computed and variable data indicating **color difference** quantity in each valid signal block data structure is updated and average **color value** is subtracted from received signal cell to produce received signal block data structure. It is...

...data structures is identical to the received signal block data structure, based on which message **value** paired with the updated signal block is stored.

... Acquired **color image** including several **image** region, each referred to as a received signal cell, is received. Message **value** included in a set of valid unique message **values** in a preset coding scheme is encoded. Each received signal cell includes subregions having two **different colors** spatially arranged in a pattern. Two **different colors** of the received signal cell has an average **color value**. An **image** location is determined in the acquired **image** of each received signal cell using a set of valid signal block data structures each representing and uniquely paired with one of valid message **values** in the coding scheme. Each signal block data structure defines size dimensions of received signal cell and includes variable data indicating a **color difference** quantity. Each signal block data structure includes scaling data indicating a spatially arranged modulation pattern specifying **image** location in a received rigid cell of scaled **color difference** quantities. An INDEPENDENT CLAIM is also included for processor controlled machine operating program...

...For decoding digital data such as bar codes, for **image** marking techniques such as digital **water marking** applied to **graphic** or **photographic image**.

...

...Recovers messages encoded at high density rate in acquired **image**. Reduces the complexity and increases the reliability of decoding the embedded signal in an encoded **image**. Enables implementing pattern concept in both one and two dimensions in a signal block. Achieves high information encoding density rate with little or no perceived **image** degradation

...Title Terms: **VALUE** ;

25/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013012899 **Image available**
WPI Acc No: 2000-184750/200017
XRPX Acc No: N00-136450

System for changing attribute of image by electronic watermark has image output unit for outputting image superimposed by one of the insert data

Patent Assignee: NIPPON ELECTRIC CO (NIDE); NEC CORP (NIDE)
Inventor: HASHIMOTO M

Number of Countries: 029 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 977434	A2	20000202	EP 99250251	A	19990728	200017 B
JP 2000050307	A	20000218	JP 98213875	A	19980729	200020
CN 1243379	A	20000202	CN 99111150	A	19990728	200025
KR 2000012053	A	20000225	KR 9930969	A	19990729	200102
JP 3266569	B2	20020318	JP 98213875	A	19980729	200222
TW 448412	A	20010801	TW 99112216	A	19990719	200222
KR 299000	B	20010929	KR 9930969	A	19990729	200234

Priority Applications (No Type Date): JP 98213875 A 19980729

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 977434	A2	E	17	H04N-005/913	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
JP 2000050307	A		10	H04N-011/04	
CN 1243379	A			H04N-001/387	
KR 2000012053	A			G06F-015/72	
JP 3266569	B2		9	H04N-011/00	Previous Publ. patent JP 2000050307
TW 448412	A			G06T-001/00	
KR 299000	B			G06T-001/00	Previous Publ. patent KR 2000012053

System for changing attribute of image by electronic watermark has image output unit for outputting image superimposed by one of the insert data

Abstract (Basic):

... The system for **changing attribute** of **image** by electronic **watermark**, where a prescribed insert data is added to an electronic **watermark** embedded in an **image**, comprises an **image** input device for inputting the **image** in which the electronic **watermark** is imbedded and a discrete cosine transformation device for transforming the **image**. It also has a determination device for calculating a statistical similarity between the electronic **watermark** and a...

...prescribed electronic **watermark** and an **attribute** detection device for outputting an **attribute** of the **image** on the basis of an output from the determination device. There are a number of memories for **storing** the insert data and a selector for selecting one of the insert data. There is an insert data register for **storing** an output from...

...the selector and a brightness register for **storing** a brightness signal of the **image**.

... A **color difference** register stores a **color difference** signal of the **image** and an adder adds the output of the brightness register and the output of the **color difference** register...

...Improved quality of the output **image** and prevents illegal reproduction of the **image**.

...

...Block diagram of **attribute change** apparatus

...Title Terms: **CHANGE** ;

?

File 348:EUROPEAN PATENTS 1978-2004/Aug W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040812,UT=20040805

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	23678	(COLOR? OR COLOUR?) (3N) (PARAMETER? OR GAMUT? OR VALUE?? OR ATTRIBUTE?? OR REQUIRE?)
S2	1996	(ADJUST OR CHANG? OR MODIF? OR ALTER? OR ADAPT?) (3N) S1
S3	2244	S1 (3N) (DIFFERENCE? OR DIFFERENT OR RESIDUAL)
S4	566608	IMAGE?? OR GRAPHIC?? OR PICTURE? OR PHOTO OR PHOTOS OR PHOTOGRAPH?
S5	137243	PRINTER?? OR PRINTING
S6	1226	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR COD-ING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INT-EGRAT? OR ADD OR ADDED OR ADDING) (3N) S1
S7	3749	WATERMARK? OR WATER() MARK?
S8	44	(STORE OR STORING OR SAVING OR KEEP?) (5N) (S2 OR S3)
S9	217	(EXTENDED OR LIMITED) (3N) S1
S10	336	AU=(WEXLER, R? OR BOURDELAIS, R? OR SPAULDING, K? OR BRYAN T, R? OR SUMMERS, D? OR WEXLER R? OR BOURDELAIS R? OR SPAULDI-NG K? OR BRYANT R? OR SUMMERS D?)
S11	165887	IC=(B41B? OR B41J? OR G06K? OR G06F?)
S12	102	S6(S) S4(S) S5
S13	22	S12 AND S11
S14	5	S13 AND AD=20001205:20040819/PR
S15	17	S13 NOT S14
S16	17	IDPAT (sorted in duplicate/non-duplicate order)
S17	17	IDPAT (primary/non-duplicate records only)
S18	3	S8(S) S5
S19	3	S18 NOT S17
S20	85	S1 AND S10
S21	3	S20 AND S11
S22	3	S21 NOT (S19 OR S17)
S23	0	S7(S) S8
S24	141	S5(S) S6
S25	12	S24(10N) (EXTENDED OR LIMITED)
S26	11	S25 NOT (S21 OR S19 OR S17)

17/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01352236

Command interpretation using rewritable command registers
Befehlinterpretierung die wiederbeschreibbare Befehlregister verwendet
Interpretation de commandes utilisant des registres de commande
reinscriptibles

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730001), 4-1, Nishishinjuku 2-chome,
Shinjuku-ku, Tokyo 160-0811, (JP), (Applicant designated States: all)

INVENTOR:

Yada, Junya, c/o Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,
Nagano-ken 392-8502, (JP)

LEGAL REPRESENTATIVE: .

Winter, Brandl, Furniss, Hubner, Ross, Kaiser, Polte Partnerschaft
(100052), Patent- und Rechtsanwaltskanzlei Alois-Steinecker-Strasse 22,
85354 Freising, (DE)

PATENT (CC, No, Kind, Date): EP 1154371 A2 011114 (Basic)
EP 1154371 A3 040303

APPLICATION (CC, No, Date): EP 2001111064 010508;

PRIORITY (CC, No, Date): JP 2000140304 000512

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06K-015/00 ; G06F-009/445

ABSTRACT WORD COUNT: 120

NOTE:

Figure number on first page: 7

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200146	1021
SPEC A	(English)	200146	10094
Total word count - document A			11115
Total word count - document B			0
Total word count - documents A + B			11115

INTERNATIONAL PATENT CLASS: G06K-015/00 ...

... G06F-009/445

...SPECIFICATION CMYK raster data for each pass sent from the command generating circuit 23 to the **printing** execution unit 9. As described above, the command generating unit 23 generates "CMYK raster data forwarding commands" while **adding color** specification **parameters** to the **image** data sets for each color, and sends them to the **printing** execution unit 9. As a result, the interlace CMYK raster data for each pass sent to the **printing** execution unit 9 has the configuration shown in Fig. ...changes, by rewriting the contents of the color specification registers 27a through 27d, the correct **color** specification **parameter** may be **added** even after the above order changes. For example, where the order of **image** data sets for each color sent from the position control circuit 24 is black 52k...

...stored in the color specification register 27a for the address 1 is added to the **image** data set 52k initially sent from the position control circuit 24, and the color specification...

...stored in the color specification register 27b for the address 2 is added to the **image** data set 52c sent second. Similarly, the color specification parameters 58m and 58c are added to the **image** data sets 52m and 52y for magenta and yellow, respectively.
Here, ink color data (color...

17/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01283964

Enterprise job management system

System zum unternehmensweiten Verwalten von Druckarbeiten

Systeme de gestion de travaux d'impression au niveau de l'entreprise

PATENT ASSIGNEE:

Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all)

INVENTOR:

Tallian, Andrew Eric, 3130 SW Hamilton Street, Portland, OR 97201, (US)

Robson, Christopher J., 4435 NW Crystal Court, Camas, WA 98607, (US)

Mitchell, Kathryn L., 1645 NW 13th Street, Corvallis, OR 97330, (US)

Laing, Scott Richard, 320 NW Uptown Ter., Apt. 2A, Portland, OR 97210, (US)

Kerr, John M., 2982 NW Pineview, Albany, OR 97321, (US)

Jones, Michael J., 6970 NW Diamond Place, Corvallis, OR 97330, (US)

Cripe, Brian E., 945 NW Westwood Place, Corvallis, OR 97330, (US)

Orton, Kristann L., 1910 Province Road, Point Roberts WA 98281, (US)

Lowblad, Mary Ann, 7808 NW Blue Pointe Lane, Portland, OR 97229, (US)

LEGAL REPRESENTATIVE:

Carpmaels & Ransford (101821), 43 Bloomsbury Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 1103909 A2 010530 (Basic)
EP 1103909 A3 030514

APPLICATION (CC, No, Date): EP 2000309941 001109;

PRIORITY (CC, No, Date): US 447910 991123

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60 ; G06F-017/21

ABSTRACT WORD COUNT: 140

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200122	962
SPEC A	(English)	200122	8088
Total word count - document A			9050
Total word count - document B			0
Total word count - documents A + B			9050

INTERNATIONAL PATENT CLASS: G06F-017/60 ...

... G06F-017/21

...SPECIFICATION to the "mail merge" feature of Microsoft Word for Windows). Attribute 13070 provides for glossy **printing** , while attribute 13080 provides for **photographic** quality **printing** . Attribute 13090 is a blank attribute.

In our example, Mike's Print Shoppe has deselected...seen by all who pass. Christa therefore checks waterfast attribute 14090 in addition to two **color attribute** 14040, content **merge** attribute 13060, and B3 attribute 14020, and presses search key 14099. When this is done...

...in Fig. 21. Christa's Chili can then view information about the vendor including address, **graphical** information, hours, and other advertising or related information. Christa is particularly impressed that Mike's...

...Mike's Print Shoppe is the only one that has identified the attribute of waterfast **printing**, at least at this point in time. Note that if Christa's Chili selected attribute...

...Mike's Print Shoppe would not be selected because Mike does not offer four color **printing** at this time. This would result in an indication to the user that no vendors...

17/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01115605

Apparatus and method for drop size modulated ink jet printing
Vorrichtung und Verfahren zum Tintenstrahldrucken mit Modulation der Tropfengrosse
Appareil et procede d'impression a jet d'encre avec modulation de la taille des gouttes

PATENT ASSIGNEE:

XEROX CORPORATION, (219782), 800 Long Ridge Rd., P.O. Box 1600, Stamford, CT 06904-1600, (US), (Applicant designated States: all)

INVENTOR:

Burr, Ronald F., 11442 SW French Glen Court, Wilsonville, Oregon 97070, (US)

Segerstrom, Eric C., 8559 SW 10TH, Portland, Oregon 97219, (US)

Greb, Christine M., 1127 Cedar Street, Lake Oswego, Oregon 97034, (US)

Wiltse, John M., 2614 NE 62ND Avenue, Portland, Oregon 97213, (US)

Hart, Joseph D., 14203 NE 52ND Street, Vancouver, Washington 98682, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721), Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 976558 A2 000202 (Basic)
EP 976558 A3 000927

APPLICATION (CC, No, Date): EP 99305794 990721;

PRIORITY (CC, No, Date): US 124636 980729

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **B41J-002/045**

ABSTRACT WORD COUNT: 102

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200005	1124
SPEC A	(English)	200005	4319
Total word count - document A			5443
Total word count - document B			0
Total word count - documents A + B			5443

INTERNATIONAL PATENT CLASS: **B41J-002/045**

...SPECIFICATION a single volume that produce on a print medium dots of ink sized to provide **printing** at a given resolution, such as 12 dots per millimeter (300 dots per inch (dpi)). Single dot size **printing** is acceptable for most text and **graphics printing** applications that do not require high **image** quality. Higher **image** quality, such as "**photographic**" **image** quality, normally requires higher resolution, which slows the print speed. **Image** quality may also be improved by **adding** ink **color** densities, which undesirably **requires** an increase in the number of jets in the print head.

Another technique for improving...

17/3,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01054771

Ink jet printing apparatus and method for improved accuracy of ink droplet placement

Tintenstrahl Druckapparat und Verfahren zum Tintentropfenpositionieren mit verbesserter Genauigkeit

Appareil d'impression a jet d'encre et procede de positionnement des gouttes d'encre avec une precision amelioree

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York 14650, (US), (Applicant designated States: all)

INVENTOR:

Wen, Xin, Eastman Kodak Company, 343 State Street, Rochester, New York 14650-2201, (US)

Couwenhoven, Douglas W., Eastman Kodak Company, 343 State Street, Rochester, New York 14650-2201, (US)

Lubinsky, Anthony Richard, Eastman Kodak Company, 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A, Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 931663 A2 990728 (Basic)
EP 931663 A3 000112

APPLICATION (CC, No, Date): EP 98204438 981223;

PRIORITY (CC, No, Date): US 4791 980109

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **B41J-002/205** ; H04N-001/053

ABSTRACT WORD COUNT: 160

NOTE:

Figure number on first page: 1A

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9930	1072
SPEC A	(English)	9930	4778
Total word count - document A			5850
Total word count - document B			0
Total word count - documents A + B			5850

INTERNATIONAL PATENT CLASS: **B41J-002/205** ...

...SPECIFICATION used to describe the waveform index numbers IN.

Returning now to Figs. 1a and 1b, **image** file Ip))(x,y) is calibrated by **image** calibrator 70. Ip))(x,y) includes a multiplicity of color pixel values for each of...

...planes, which color planes may be yellow, magenta and cyan color planes. That is, each **color code value** is associated with the previously mentioned aim optical density for that color. More specifically, each color pixel value is defined by input **image** file I(x,y). The calibration performed by **image** calibrator 70 converts each color pixel value to a waveform index number IN using (a) the aim density at that pixel for that color and (b) **printer** performance curve 100 (see Fig. 4). As shown in Figs. 1a and 1b, this calibration process results in an **image** file IN(x,y) with pixel values described by waveform index numbers IN.

Still referring...

17/3,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00999113

Ink jet printing apparatus and method using timing control of electronic waveforms for variable gray scale printing without artifacts

Tintenstrahl-druckvorrichtung und -verfahren mit Synchronisierung der elektronischen Wellenformen zum Drucken variabler Grautonbilder ohne Artefakte

Appareil et procede d'impression a jet d'encre avec synchronisation de formes d'ondes pour imprimante en niveau de gris variable sans artifacts

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York 14650, (US), (Applicant designated States: all)

INVENTOR:

Wen, Xin, c/o Eastman Kodak Company, Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A, Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 902587 A2 990317 (Basic)
EP 902587 A3 000322

APPLICATION (CC, No, Date): EP 98202888 980831;

PRIORITY (CC, No, Date): US 928003 970911

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/40; **B41J-002/045**

ABSTRACT WORD COUNT: 294

NOTE:

Figure number on first page: 1A

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9911	975
SPEC A	(English)	9911	5239
Total word count - document A			6214
Total word count - document B			0
Total word count - documents A + B			6214

...INTERNATIONAL PATENT CLASS: **B41J-002/045**

...SPECIFICATION used to describe the waveform index numbers IN.

Returning now to Figs. 1a and 1b, **image** file Ip))(x, y) is calibrated by **image** calibrator 70. Ip))(x, y) includes a multiplicity of color pixel values for each of...

...planes, which color planes may be yellow, magenta and cyan color planes. That is, each **color code value** is associated with the previously mentioned aim optical density for that color. More specifically, each color pixel value is defined by input **image** file I(x, y). The calibration performed by **image** calibrator 70 converts each color pixel value to a waveform index number IN using (a) the aim density at that pixel for that color and (b) **printer** performance curve 100 (see Fig. 5). As shown in Figs. 1a and 1b, this calibration process results in an **image** file IN(x, y) with pixel values described by waveform index numbers IN.

Still referring...

17/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00988060

Ink jet printing apparatus and method accommodating printing mode control
Vorrichtung und Verfahren zum Tintenstrahldrucken mit Druckmodussteuerung
Appareil et procede d'impression a jet d'encre permettant de commander le
mode d'impression

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Wen, Xin, Eastman Kodak Company, 343 State Street, Rochester, New York
14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A,
Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 893260 A2 990127 (Basic)
EP 893260 A3 991215

APPLICATION (CC, No, Date): EP 98202342 980713;

PRIORITY (CC, No, Date): US 899616 970724

DESIGNATED STATES: DE; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **B41J-002/045 ; B41J-002/05**

ABSTRACT WORD COUNT: 201

NOTE:

Figure number on first page: 1A

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9904	608
SPEC A	(English)	9904	4199
Total word count - document A			4807
Total word count - document B			0
Total word count - documents A + B			4807

INTERNATIONAL PATENT CLASS: **B41J-002/045 ...**

... B41J-002/05

...SPECIFICATION bits, used to describe the waveform index numbers IN.

Returning to FIGS. 1a and 1b, **image** file Ip))(x, y) is calibrated by a first **image** calibrator 95. Ip))(x, y) includes **color code** pixel **values** for each of the yellow, magenta, cyan, and black color planes. Each **color code** pixel **value** is associated with a desired optical density for that color, as defined by the input **image** file I(x, y). The calibration performed by first **image** calibrator 95 converts each color pixel value to a waveform index number IN using (a) the aim density at that pixel for that color and (b) the **printer** performance curve 70. This calibration process results in an **image** file IN(x, y) with pixel values described by waveform index number IN.

Still referring...

17/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00988059

Digital ink jet printing apparatus and method
Vorrichtung und Verfahren zum digitalen Tintenstrahldrucken
Dispositif et procede d'impression numerique a jet d'encre
PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Wen, Xin, Eastman Kodak Company, 343 State Street, Rochester, New York
14650-2201, (US)

Miller, Rodney Lee, Eastman Kodak Company, 343 State Street, Rochester,
New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A,
Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 893258 A2 990127 (Basic)
EP 893258 A3 991215

APPLICATION (CC, No, Date): EP 98202341 980713;

PRIORITY (CC, No, Date): US 899574 970724

DESIGNATED STATES: DE; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B41J-002/04 ; B41J-002/05

ABSTRACT WORD COUNT: 182

NOTE:

Figure number on first page: 1A

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9904	990
SPEC A	(English)	9904	3902
Total word count - document A			4892
Total word count - document B			0
Total word count - documents A + B			4892

INTERNATIONAL PATENT CLASS: B41J-002/04 ...

... B41J-002/05

...SPECIFICATION bits, used to describe the waveform index numbers IN.

Returning to Figs. 1a and 1b, **image** file Ip))(x,y) is calibrated by **image** calibrator 70. Ip))(x,y) includes color pixel values for each of the yellow, magenta and cyan color planes. That is, each **color code value** is associated with an aim optical density for that color, as defined by the input **image** file I(x,y). The calibration performed by **image** calibrator 70 converts each color pixel value to a waveform index number IN using (a) the aim density at that pixel for that color and (b) **printer** performance curve 100 (see Fig. 4). This calibration process results in an **image** file IN(x,y) with pixel values described by waveform index numbers IN.

Still referring...

17/3,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00918001

Image supply apparatus, image output apparatus, control apparatus therefor,
and image forming apparatus incorporating them
Bildeingabevorrichtung, Bildausgabevorrichtung, zugehörige Steuervorrichtung
g und Bilderzeugungsgerät mit diesen Vorrichtungen
Dispositif de sortie d'images, dispositif d'alimentation des donnees
d'images, appareil de commande pour lesdits dispositifs, et appareil de
formation d'images les comportant

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Takahashi, Kazuyoshi, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,
Ohta-ku, Tokyo 146, (JP)
Watanabe, Takashi, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,
Ohta-ku, Tokyo 146, (JP)
Yanaka, Toshiyuki, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,
Ohta-ku, Tokyo 146, (JP)
Tanaami, Hideyuki, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,
Ohta-ku, Tokyo 146, (JP)

LEGAL REPRESENTATIVE:

Grams, Klaus Dieter, Dipl.-Ing. et al (4423), Patentanwaltsburo
Tiedtke-Buhling-Kinne & Partner Bavariaring 4-6, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 837420 A1 980422 (Basic)
EP 837420 B1 030604

APPLICATION (CC, No, Date): EP 97119794 930225;

PRIORITY (CC, No, Date): JP 9239167 920226; JP 92132793 920525; JP 92201621
920728

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; NL;
PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 558008 (EP 93102983)

INTERNATIONAL PATENT CLASS: G06K-015/00

ABSTRACT WORD COUNT: 27465

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200323	1258
CLAIMS B	(German)	200323	1025

CLAIMS B	(French)	200323	1411
SPEC B	(English)	200323	19617
Total word count	- document A		0
Total word count	- document B		23311
Total word count	- documents A + B		23311

INTERNATIONAL PATENT CLASS: G06K-015/00

...SPECIFICATION SS7-1 to SS7-7 shown in Fig 4 are previously performed. If a desired **color** printing head is provided, a **discrimination** is made in step SS7-11 as to whether or not the color in the...register and a comparator and the like. When the area signal generator 651 receives the **image** address through the CPU bus, the **imaged** address is compared with a variety of values which have been previously set. The area...

...B are transmitted by the host computer H to the printer P.

(5) Others

The **image** output apparatus (**printer**) according to the present invention is not limited to the ink jet **printing** method and it may employ a variety of **printing** methods. If the ink jet **printing** method is employed, an excellent effect to be obtained from a **printing** head or a **printing** apparatus of a type comprising a means (such as an electrothermal ...ink to occur by the heat energy. The aforesaid method enables high density and precise **image** can be recorded.

As for the typical structure and the principle, it is preferable that
...

17/3,K/9 (Item 9 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00860610

A method for calibrating a spatial light modulator printing system
Verfahren zur Kalibrierung eines Drucksystems mit einem raumlichen Lichtmodulator
Methode de calibrage d'un systeme d'impression comprenant un modulateur spatial de lumiere

PATENT ASSIGNEE:

TEXAS INSTRUMENTS INCORPORATED, (279070), 13500 North Central Expressway,
Dallas Texas 75265, (US), (Proprietor designated states: all)
AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),
(Proprietor designated states: all)

INVENTOR:

Thompson, E. Earle, 6214 Raintree Court, Dallas, Texas 75240, (US)

LEGAL REPRESENTATIVE:

Schwepfenger, Karl-Heinz, Dipl.-Ing. (10982), Prinz & Partner GbR
Manzingerweg 7, 81241 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 791863 A2 970827 (Basic)
EP 791863 A3 980513
EP 791863 B1 011024

APPLICATION (CC, No, Date): EP 97105604 950619;

PRIORITY (CC, No, Date): US 261614 940617

DESIGNATED STATES: DE; FR; GB; IT; NL

RELATED PARENT NUMBER(S) - PN (AN):

EP 687962 (EP 95109461)

INTERNATIONAL PATENT CLASS: G03G-015/00; G03G-015/32; H04N-001/19;

H04N-001/29; G06K-015/12

ABSTRACT WORD COUNT: 98

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199708W4	90
CLAIMS B	(English)	200143	121
CLAIMS B	(German)	200143	116
CLAIMS B	(French)	200143	145
SPEC A	(English)	199708W4	5205
SPEC B	(English)	200143	5263
Total word count - document A			5295
Total word count - document B			5645
Total word count - documents A + B			10940

...INTERNATIONAL PATENT CLASS: G06K-015/12

...SPECIFICATION usually incorporates a simpler developer system using monocomponent toner (MCT) with no carrier beads,while **color** systems **require** the **added** complexity of dual component toners (DCT) to obtain color quality and **image** performance. The black and white **printers** usually operate to produce only binary dots (black or white), basically driving the OPC discharge...

...process control requirement. Another major difference is the need to accurately register the successive color **images** onto the finished page, an aspect unnecessary in monochrome **images** . The respective color toner supply systems must be kept segregated to avoid color contamination. Color...

...SPECIFICATION arena is obvious. Significant barriers to doing so exist, however. The monochrome desk top laser **printers** represent vastly simplified version of the EP process compared to color systems. The former usually incorporates a simpler developer system using monocomponent toner (MCT) with no carrier beads,while **color** systems **require** the **added** complexity of dual component toners (DCT) to obtain color quality and **image** performance. The black and white **printers** usually operate to produce only binary dots (black or white), basically driving the OPC discharge...

...process control requirement. Another major difference is the need to accurately register the successive color **images** onto the finished page, an aspect unnecessary in monochrome **images** . The respective color toner supply systems must be kept segregated to avoid color contamination. Color...

17/3,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00711697

Method of trapping graphical objects in a desktop publishing program.
Verfahren zum Einführen von graphischen Objekten in einem
Desk-Top-Publishing-Programm.
Methode de capture d'objets graphiques dans un programme de publication par ordinateur.

PATENT ASSIGNEE:

ALDUS CORPORATION, (1610550), 411 First Avenue South, Seattle, WA
98104-2871, (US), (applicant designated states: CH;DE;FR;GB;IT;LI)

INVENTOR:

Gartland, Richard A., 11931 N.E. 168th Street, Bothell, Washington 98011,
(US)

LEGAL REPRESENTATIVE:

Spall, Christopher John (36171), BARKER, BRETTELL & DUNCAN 138 Hagley
Road, Edgbaston Birmingham B16 9PW, (GB)

PATENT (CC, No, Kind, Date): EP 674277 A2 950927 (Basic)
EP 674277 A3 970326

APPLICATION (CC, No, Date): EP 95301898 950322;

PRIORITY (CC, No, Date): US 216729 940323

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

INTERNATIONAL PATENT CLASS: G06F-017/21 ; G06K-015/12 ; H04N-001/58

ABSTRACT WORD COUNT: 40

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	260
SPEC A	(English)	EPAB95	6345
Total word count - document A			6605
Total word count - document B			0
Total word count - documents A + B			6605

INTERNATIONAL PATENT CLASS: G06F-017/21 ...

... G06K-015/12

...SPECIFICATION a method of creating traps for objects in desktop
publishing programs.

Background of the Invention

Color printing has traditionally required the integration of
many unique and varied talents to see a project through from conception
to a...

...page. Prior to "desktop publishing," ideas or concepts were typically
first drawn by hand and photographed, any text or illustrations added,
and the aggregate of pictures and text used to produce a printed page.
The traditional process generally required, in addition...

...paste-up person, typesetting bureau and a lithography department that
would produce separations from the photographs.

Desktop publishing has relieved some of the burden of publishers by
allowing color production, i...

17/3,K/11 (Item 11 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00601199

Ink-jet printer color palette selection method and system

Verfahren und System zur Auswahl von Farbpaletten fur Tintenstrahldrucker

Methode et systeme de selection de palettes de couleurs pour imprimante a
jet d'encre

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,
California 94304, (US), (Proprietor designated states: all)

INVENTOR:

Neff, David, 10517 NE 156th Street, Brush Prairie, WA 98606, (US)

LEGAL REPRESENTATIVE:

Colgan, Stephen James et al (29461), CARPMAELS & RANSFORD 43 Bloomsbury

Square, London WC1A 2RA, (GB)
PATENT (CC, No, Kind, Date): EP 590853 A1 940406 (Basic)
EP 590853 B1 001108
APPLICATION (CC, No, Date): EP 93307476 930922;
PRIORITY (CC, No, Date): US 954785 920930
DESIGNATED STATES: DE; FR; GB; IT
RELATED DIVISIONAL NUMBER(S) - PN (AN):
EP 1021034 (EP 201266)
INTERNATIONAL PATENT CLASS: B41J-002/21 ; H04N-001/46
ABSTRACT WORD COUNT: 188

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200045	864
CLAIMS B	(German)	200045	719
CLAIMS B	(French)	200045	947
SPEC B	(English)	200045	2685
Total word count - document A			0
Total word count - document B			5215
Total word count - documents A + B			5215

INTERNATIONAL PATENT CLASS: B41J-002/21 ...

...ABSTRACT A1

The invented method involves the coding of color and black print **image** data for communication of the same from a **printer** server or driver to an ink-jet **printer** . The coding is such that true black or process black can be selected by the driver and can be used by a **printer** capable of producing both, i.e. an ink-jet **printer** equipped with a black ink pen and a tri-color ink pen. An invented print...

...black will be printed, the communication sequence in which the codes are sent to the **printer** **requires** none of the **color** selection **coding** . A four-plane, as well as other, palettes are described, with the four-plane palette...

...method, thereby simplifying and reducing coding and decoding overhead for both the driver and the **printer** .

17/3,K/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00546919

Method of encoding multi-bit digital information
Verfahren zur Kodierung von digitalen Multi-Bit-Daten
Methode de codage d'information numerique multi-bit

PATENT ASSIGNEE:

XEROX CORPORATION, (219783), Xerox Square, Rochester, New York 14644,
(US), (Proprietor designated states: all)

INVENTOR:

Hecht, David L., 2001 Barbara Drive, Palo Alto, California 94303, (US)
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Prasadam Flores, Noah L., 220 6th Avenue, Santa Cruz, California 95062,
(US)

LEGAL REPRESENTATIVE:

Skone James, Robert Edmund et al (50281), GILL JENNINGS & EVERY Broadgate

House 7 Eldon Street, London EC2M 7LH, (GB)
PATENT (CC, No, Kind, Date): EP 549315 A1 930630 (Basic)
EP 549315 B1 990922
APPLICATION (CC, No, Date): EP 92311676 921221;
PRIORITY (CC, No, Date): US 814842 911227
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06K-009/18 ; G06K-019/06 ; G06K-001/12
ABSTRACT WORD COUNT: 156

NOTE:

Figure number on first page: 2 3

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9938	482
CLAIMS B	(German)	9938	457
CLAIMS B	(French)	9938	562
SPEC B	(English)	9938	2412
Total word count - document A			0
Total word count - document B			3913
Total word count - documents A + B			3913

INTERNATIONAL PATENT CLASS: G06K-009/18 ...

... G06K-019/06 ...

... G06K-001/12

...SPECIFICATION command in response to the digital values they encode.

Still other bi-state and polystate **graphical** characteristics that can be used in the composite glyphs of a self-clocking glyph code...

...subtractive primaries (cyan, magenta and yellow) plus the black that are used in conventional color **printers** are suitable for encoding two or more bits (i. e., m-bit long bit strings...

...this relatively straightforward extension is employed, the glyphs 31a - 31d may have strictly bi-state **graphical** characteristics or a mixture of bi-state and polystate characteristics, depending on whether they are ...

...can be ignored during the decoding of the code because they represent "don't care" **values** . If **color** is used for **encoding** , the loss of the data encoded therein as a result, for example, of "black and...

17/3,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00490317

Image processing apparatus

Bildverarbeitungsvorrichtung

Appareil de traitement d'image

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

Funada, Masahiro, 15-L204, Higashi-terao 1-chome, Tsurumi-ku,
Yokohama-shi, Kanagawa-ken, (JP)

Ohta, Ken-ichi, 54-50, Shibokuchi, Takatsu-ku, Kawasaki-shi, Kanagawa-ken

, (JP)
 Takaragi, Yoichi, 7-28-2, Hiyoshi 3-chome, Kohoku-ku, Yokohama-shi,
 Kanagawa-ken, (JP)
 Ohta, Eiji, 2-8, Kataseyama 3-chome, Fujisawa-shi, Kanagawa-ken, (JP)
 LEGAL REPRESENTATIVE:
 Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 2-5 Warwick
 Court High Holborn, London WC1R 5DJ, (GB)
 PATENT (CC, No, Kind, Date): EP 488796 A1 920603 (Basic)
 EP 488796 B1 970827
 APPLICATION (CC, No, Date): EP 91311132 911129;
 PRIORITY (CC, No, Date): JP 90330883 901130; JP 90330884 901130; JP
 90330886 901130; JP 90330888 901130; JP 90330889 901130; JP 90330890
 901130
 DESIGNATED STATES: DE; FR; GB; IT; NL
 INTERNATIONAL PATENT CLASS: G03G-021/00; **G06K-009/64**
 ABSTRACT WORD COUNT: 66

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9708W4	1077
CLAIMS B	(German)	9708W4	1030
CLAIMS B	(French)	9708W4	1226
SPEC B	(English)	9708W4	16426
Total word count - document A			0
Total word count - document B			19759
Total word count - documents A + B			19759

...INTERNATIONAL PATENT CLASS: **G06K-009/64**

...SPECIFICATION In a case where the value of the flat-portion color
 matching signal 6315 continues at "0", the value of the texture
 integration signal 6317 approaches "0".

Numeral 6306 denotes an integration processing circuit related to the
 line...the R, G, B values of the input image fall within a range of
 ((+)-d1))) with respect to the three predetermined values of each of R,
 G, B is judged independently...

...60106, 60109 aggregate the outputs of the aforementioned window
 comparators in an M x N pixel block. These counters are reset at
 completion of all pixels in the block. For example...

...set to a value different from th1)). For example, if th2)) > th1))
 holds, the judgment regarding the second specific original will be
 such that the probability of obtaining a "1" output from the AND circuit
 60123 will be lower than in the case of the first specific original.

By virtue of the foregoing operation, the AND circuit 60111 will
 output "1" only when the number of colors in a predetermined range is...

...a predetermined number (the number of th1))) with respect to all three
 of the colors predetermined for the first specific original within a
 block of interest. A similar signal is outputted by the AND circuit
 60123 with regard to the second...

...takes the OR of the outputs from the AND circuits 60111 and 60123 and
 outputs "1" when at least one of the AND circuits 60111, 60123
 delivers "1". The selector 60112 changes over its output signals
 depending upon the output from the OR circuit 60113. The selector 60112
 delivers the Y, M, C, K image signals intact when the output of the
 OR circuit 60113 is "0". When the output of the...is outputted.

Figs. 61A and 61B are diagrams for describing a method of judging an

actual specific original according to the 19th example.

For example, it will be assumed that Fig. 61A is **the** first specific original. If the three types of R, G, B values of a red...

...judgment based solely upon hue if an original is in a soiled condition. Thus, the **accuracy** of judgment is raised.

Instead of using the window comparators 60102, 60105, 60108, look-up...

...1" with respect to R, G, B inputs can be employed.

Further, the location from **which** the output of the AND circuit 60111 is fed back is not limited to that

17/3,K/14 (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00801796 **Image available**

WATERMARKING AN IMAGE IN COLOR PLANE SEPARATIONS AND DETECTING SUCH WATERMARKS

INTRODUCTION DE FILIGRANES DANS UNE IMAGE DIVISEE EN PLANS DE COULEUR ET DETECTION DE CES FILIGRANES

Patent Applicant/Assignee:

DIGIMARC CORPORATION, 19801 SW 72nd Avenue, Suite 250, Tualatin, OR 97062
, US, US (Residence), US (Nationality)

Inventor(s):

MILLER Marc, P.O. Box 596, Corte Madera, CA 97068, US,
AMMON Gustafson, 13305 SW Lancewood St., Beaverton, OR 97008, US,
RODRIQUES Tony Forrest, 3104 NE 31st Avenue, Portland, OR 97212, US,
ALASTAIR M Reed, 1115 C Avenue, Lake Oswego, OR 97034, US,
RHOADS Geoffrey B, 2961 SW Turner Road, West Linn, OR 97068, US,

Legal Representative:

GALBI Elmer (agent), 13314 Vermeer Drive, Lake Oswego, OR 97035, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200135323 A1 20010517 (WO 0135323)

Application: WO 2000US29244 20001023 (PCT/WO US0029244)

Priority Application: US 99163676 19991105

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5926

Main International Patent Class: G06K-009/00

Fulltext Availability:

Detailed Description

Detailed Description

... image. For example see the above referenced issued patents and co-pending patent application.

The **image** 501 is prepared for **printing** by changed from RGB colors to

CMYK colors in accordance with the conventional know transformation...

...as indicated by block 503. As indicated by block 505, the dominant color in the **image** is calculated. This can be done simply by **adding** together the **values** of each **color** for each pixel in the **image**. That is the Cyan values for each pixel in the **image** are added together, the yellow values for each pixel in the **image** are added together, etc. The color with the highest cumulative value is then taken as...

...color. Other known techniques can also be used to determine the dominant color in an **image**.

The tweak values are then changed to tweak values for the dominant color as indicated...

17/3,K/15 (Item 15 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00781896 **Image available**

CUSTOMER RELATIONSHIP MANAGEMENT SYSTEM AND METHOD
SYSTEME ET PROCEDE DE GESTION DE LIENS ENTRE CLIENTS

Patent Applicant/Assignee:

COMPUDIGM INTERNATIONAL LIMITED, Level 16, Compudigm House, 49 Boulcott Street, Wellington, NZ, NZ (Residence), NZ (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RYAN Patrick Nicholas, Level 16, Compudigm House, 49 Boulcott Street, Wellington, NZ, NZ (Residence), NZ (Nationality), (Designated only for: US)

Legal Representative:

BENNETT Michael Roy (et al) (agent), West-Walker Bennett, Mobil on the Park, 157 Lambton Quay, Wellington 6001, NZ,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200115030.A1 20010301 (WO 0115030)

Application: WO 2000NZ164 20000821 (PCT/WO NZ0000164)

Priority Application: NZ 337370 19990820

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7797

Main International Patent Class: G06F-017/60

Fulltext Availability:

Claims

Claim

... hard disk, floppy disk or optical disc, and an output device 116 for example a **printer**. The system 100 could also include a network

interface card or controller 118 and/or...of services offered by the merchant. Referring to Figure 13, the system may display a **graphical** representation of the promotion or target group shown at 500 and may also display graphically...graphically illustrated as data points in the representations 500 and 502. The preferred representations are **colour - coded** and the **value** of revenue of each machine is illustrated by representing the corresponding data points in the...

17/3,K/16 (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00376923

STRUCTURED FOCUSED HYPERTEXT DATA STRUCTURE

STRUCTURE DE DONNEES HYPERTEXTE ARTICULEE SUR LA STRUCTURATION

Patent Applicant/Assignee:

HYPERMED LTD,
OREN Avraham,
OLCHA Lev,
KOWALSKI Nahum,
MARGULYAN Rita,

Inventor(s):

OREN Avraham,
OLCHA Lev,
KOWALSKI Nahum,
MARGULYAN Rita,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9717666 A2 19970515
Application: WO 96IL131 19961023 (PCT/WO IL9600131)
Priority Application: US 95551929 19951023

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE
KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD
RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 263802

Main International Patent Class: **G06F-017/30**

International Patent Class: **G06F-17:21**

Fulltext Availability:

Detailed Description

Detailed Description

... End Sub

Sub

Sub ChangeBorderColor (Object As ChangeBorderWidthOnMultiselection
Control, ByVal Color As Long)

Object.BorderColor = **Color** Dim ShapeNumber As Integer

End Sub Dim LineNumber As Integer

Sub For ShapeNumber = 0 To...SSCB TEXT RIGHT SSPB AUTOSIZE PICTOBUT = I

0 'O - Text to the right 'O - Autosize **Picture** to Button

Global Const SSCB TEXT LEFT = I Global Const

'I - Text to the left SSPI3 - AUTOSIZE-BUTTOPIC = 2

'O - Autosize Button to **Picture**

9 1

SUBSTITUTE SHEET (RULE 26)

Global Const

'Autosize (Ribbon Button) SS FLOODTYPE-NONE = 0...

...SS-FLOODTYPE

L

TO

R = I

SSRI - AUTOSIZE - PICTOBUT = I IO Left to light

- Autosize **Picture** to Button Global Const

Global Const SS FLOODTYPE-R-TO-L = 2 '2

SSRI - AUTOSIZE - BUTTOPIC = 2 IO Right to left

- Autosize Button to **Picture** Global Const

SS-FLOODTYPE-T-TO-B = 3

'Autosize (Panel) Top to bottom

'Global Const...DB

QMAKETABLE 'Microsoft Access Version 1.0

&H50 Global Const DB-ENCRYPT = 2

'Make database **encrypted** .

'ListIndexes IndexAttributes **values** Global Const DB DECRYPT = ...it exists

DeleteNodeData.lDofNodeToDelete t

q.Execute 'March 13: Conersion over to a

q.Close **graphical** interface for selecting the

I I type of delete

'do not delete this from the...WasAPreviousScreen <>

FormatPageCount(TheChildren(Child IsAPreviousScreen Then

ChapterID, k), s, -1) If IsAPreviousScreen Then

frmMain.Previous. **Picture**

LoadPicture(KeylimagePath &

TOCFull.IstChapters.Addltem s IPREVIOUS SCREEN ON)

WasAPreviousScreen = True

TOCFull.IstChapters.itemData(TOCFu Else

II.IstChapters.NewIndex) = frmMain.Previous. **Picture**

TheChildren(ChildChapterID, k) LoadPicture(KeylimagePath &

load up the path I-PREVIOUS -SCREEN-OFF)

LocationInList = WasAPreviousScreen...

...Then ReDirn SCEnv-HierarchallList(I To

If IsANextScreen Then 3, 1 To 1)

frmMain.NextScreen. **Picture** Else

LoadPicture(KeylimagePath & ReDirn SCEnv HierarchallList(I To

I NEXT SCREEN ON) 3, 1 To NumScInList)

WasANextScreen = True End If

Else

frmMain.NextScreen. **Picture** For SubchapterNumber = I To

LoadPicture(KeylimagePath & NumScInList

I-NEXT-SCREEN

OFF) SCEnv.HierarchallList(1,

WasANextScreen...

...HierarchallList(2,

If WasAnUpScreen <> IsAnUpScreen SubchapterNumber) =

Then SubchapterScreensID(SubchapterNum

If IsAnUpScreen Then ber)

frmMain.Up. **Picture** SCEnv-HierarchallList(3,

LoadPicture(KeylimagePath & SubchapterNumber) =

I-UP-SCREEN-ON) SubchapterIndents(SubchapterNumber

WasAnUpScreen = True

```

Else Next SubchapterNumber
frmMain.Up. Picture =
LoadPicture(KeyImagePath & End Sub
1-UP-SCREEN.OFF)
WasAnUpScreen = False Sub FilITOC
End If Dim...listing list (relates to the display)
If Button And LEFT BUTTON
Then 'Leo Add for printing
'this basically activates a new If (ModeSelection =
Page SELECT -SUBCHAPTER) And (Not
MakeHeaderTitle SubchapterSelected) Then...

...Page"
dex + 1) Exit Sub
End If
Elseif Button And 'end added by Leo for printing
RIGHT-BUTTON Then
ScreenID = SubchapterScreensID(i)
If

```

17/3,K/17 (Item 17 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00176425
HIGH QUALITY PLOTTING TECHNIQUE FOR RASTER PRINTING DEVICES
TECHNIQUE DE TRACAGE DE HAUTE QUALITE POUR DISPOSITIFS D'IMPRESSION DE
TRAME

Patent Applicant/Assignee:
DA VINCI GRAPHICS INC,
Inventor(s):
WARP Rick A,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9009889 A1 19900907
Application: WO 90US1048 19900226 (PCT/WO US9001048)
Priority Application: US 89659 19890303
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
AT BE CA CH DE DK ES FR GB IT JP LU NL SE
Publication Language: English
Fulltext Word Count: 14828

Main International Patent Class: **B41J-002/22**
International Patent Class: **G06K-15:10** ...
... **G06F-03:12**
Fulltext Availability:
Detailed Description

Detailed Description
... Oxffff
#define numvfiles 3 /* number of vector
files generated */
#define numbfiles 4 /* number of bit **image**
files */
#define bufsize 512 /* size of a vector
buffer -- in memory */
#define dotbufsiz (11*720...

```
...bytes per row */
/* #define small-vec-len 24 /* small
vector length */
#define offset value 27 /* printer
dot offset value
color code definitions
The order of printing of different colors is as
follows.
* First Yellow, then Magenta, then Cyan, and then
Black...
?
```


19/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00821381

Method for calculating color gamuts
Verfahren zur Berechnung von Farbtonbereichen
Procede pour calculer des gammes de couleurs

PATENT ASSIGNEE:

AGFA-GEVAERT, (200395), Septestraat 27, 2640 Mortsel, (BE), (Proprietor
designated states: all)

INVENTOR:

Mahy, Marc, c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27, 2640 Mortsel
, (BE)

PATENT (CC, No, Kind, Date): EP 763930 A1 970319 (Basic)
EP 763930 B1 021016

APPLICATION (CC, No, Date): EP 96202418 960830;

PRIORITY (CC, No, Date): EP 95114591 950915

DESIGNATED STATES: BE; DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 47

NOTE:

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	469
CLAIMS B	(English)	200242	542
CLAIMS B	(German)	200242	469
CLAIMS B	(French)	200242	611
SPEC A	(English)	EPAB97	7909
SPEC B	(English)	200242	7901
Total word count - document A			8380
Total word count - document B			9523
Total word count - documents A + B			17903

...SPECIFICATION techniques.

A "start color" is first selected that is known to fall inside the reproducible **color gamut**. This **color** is then incrementally **changed keeping** two of the three dimensions (for example hue and lightness) constant. The changed color is...also has a number of drawbacks. The method mainly works in color space, so the **printer** model has to be inverted.

Till now this is almost always done by iterative methods...
...concave contours can be detected, but nevertheless this iterative method is still quite slow, the **printer** model has to be inverted and multiple contours are not detected.

A third approach is...

...but its weak point is that it relies on Newton Raphson iteration.
Depending on the **printer** model, there may be several possible solutions, but only one solution will be found with...

...cube to color space. An example of such a 3-ink process was found in **printing** yellow (y), cyan (c) and green (g) inks. The XYZ and corresponding CIELAB values of...

...inks is limited to 340 %. For some other colorant combinations, there may also be some **printing** problems if three times 100 % is printed on top of each other, although the total...

...limitations may be given in the colorant domain.

To determine the color gamut of a **printer** with a number of colorant limitations, previous methods should be adapted. Some of them can...
...method, the iteration becomes more complex so that even in the case of simple mathematical **printer** models there will be multiple solutions which are difficult to find. Moreover, if all the...not always straightforward. Most methods suppose that there is a one to one relation between **printers** with three colorants and the color values. For **printers** with more than three colorants this is certainly no longer the case.

Objects of the...

...SPECIFICATION techniques. A "start color" is first selected that is known to fall inside the reproducible **color gamut**. This **color** is then incrementally **changed keeping** two of the three dimensions (for example ...also has a number of drawbacks. The method mainly works in color space, so the **printer** model has to be inverted.

Till now this is almost always done by iterative methods...

19/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00820977

Method for calculating color gamuts

Verfahren zur Berechnung von Farbtonbereichen

Procede pour calculer des gammes de couleurs

PATENT ASSIGNEE:

AGFA-GEVAERT, (200395), Septestraat 27, 2640 Mortsel, (BE), (Proprietor designated states: all)

INVENTOR:

Mahy, Marc c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27, 2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 763927 A1 970319 (Basic)
EP 763927 B1 020710

APPLICATION (CC, No, Date): EP 95202501 950915;

PRIORITY (CC, No, Date): EP 95202501 950915

DESIGNATED STATES: BE; DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 61

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	1100
CLAIMS B	(English)	200228	1197
CLAIMS B	(German)	200228	1047
CLAIMS B	(French)	200228	1408
SPEC A	(English)	EPAB97	11700
SPEC B	(English)	200228	11685

Total word count - document A 12802
Total word count - document B 15337
Total word count - documents A + B 28139

...SPECIFICATION techniques. A "start color" is first selected that is known to fall inside the reproducible **color gamut**. This **color** is then incrementally **changed keeping** two of the three dimensions (for example hue and lightness) constant. The changed color is...also has a number of drawbacks. The method mainly works in color space, so the **printer** model has to be inverted. Till now this is almost always done by making use...

...concave contours can be detected, but nevertheless this iterative method is still quite slow, the **printer** model has to be inverted and multiple contours are not detected.

A third approach is...

...SPECIFICATION techniques. A "start color" is first selected that is known to fall inside the reproducible **color gamut**. This **color** is then incrementally **changed keeping** two of the three dimensions (for ...also has a number of drawbacks. The method mainly works in color space, so the **printer** model has to be inverted. Till now this is almost always done by making use...

...concave contours can be detected, but nevertheless this iterative method is still quite slow, the **printer** model has to be inverted and multiple contours are not detected.

A third approach is...

19/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00524955

Memory management for electronic color printer
Speicherverwaltung für einen elektronischen Farbdrucker
Gestion de memoire pour une imprimante electronique en couleur
PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
14650-2201, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Jamzadeh, Fereidoon S., c/o EASTMAN KODAK COMPANY, Patent Legal Staff,
343 State Street, Rochester, New York 14650-2201, (US)
Rockwell, Thomas L., c/o EASTMAN KODAK COMPANY, Patent Legal Staff, 343
State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Blickle, K. Werner, Dipl.-Ing. et al (2112), KODAK AKTIENGESELLSCHAFT
Patentabteilung, D-70323 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 535345 A1 930407 (Basic)
EP 535345 B1 960522

APPLICATION (CC, No, Date): EP 92114038 920818;

PRIORITY (CC, No, Date): US 767712 910930

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/46;

ABSTRACT WORD COUNT: 148

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A	(English)	EPABF1	626
SPEC A	(English)	EPABF1	3929
Total word count	- document A		4555
Total word count	- document B		0
Total word count	- documents A + B		4555

...SPECIFICATION of the above photofinishing system is to provide two discrete framestores, each being capable of **storing** values representing the **different** sets of **color** -separated signals **required** to produce a desired multiframe print. Such framestores would operate in a so-called "ping...

...receiving information from the input device while the other framestore is providing information to the **printer** , and vice versa. A drawback of this approach is cost, each megabyte of data storage...

?

22/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01758428

Colorimetric ink depletion processing for printers
Kolorimetrisches Tinten-Verminderungsverfahren fur Drucker
Traitement de reduction d'encre colorimetrique pour imprimantes

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Couwenhoven, Douglas W., c/o Eastman Kodak Company, Patent Legal Staff,
343 State Street, Rochester, New York 14650-2201, (US)

Spaulding, Kevin E., c/o Eastman Kodak Company, Patent Legal Staff, 343
State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 1437678 A1 040714 (Basic)

APPLICATION (CC, No, Date): EP 2003078742 031127;

PRIORITY (CC, No, Date): US 317778 021212

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06K-015/10 ; B41J-002/21

ABSTRACT WORD COUNT: 74

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200429	598
SPEC A	(English)	200429	5800
Total word count - document A			6398
Total word count - document B			0
Total word count - documents A + B			6398

INVENTOR:

... US)

Spaulding, Kevin E., c/o Eastman Kodak Company ...

INTERNATIONAL PATENT CLASS: G06K-015/10 ...

... B41J-002/21

...ABSTRACT digital image subject to a total colorant amount limit. The
method includes determining depleted code **values** for each **color**
channel such that the depleted code values produce substantially the
input perceived color according to...

...SPECIFICATION for a multilevel printer where the colorant amount is
typically not linear with digital code **value** .

None of these **colorant** reduction methods will preserve the perceived
color (for example, the CIE colorimetry) of the image...

...been processed through the final colorant reduction process. This
implies that any change in the **colorant** reduction process will **require**
that the printer be re-characterized and that the color correction
transform be recomputed.

Thus...

...comprising the steps of:

- a) determining an input perceived color corresponding to the input code **values** using a device **color** model;
- b) determining an input colorant amount for each color channel in response to the corresponding input code **value** and a **colorant** amount function that relates the input code **value** to the **colorant** amount for the corresponding color channel;
- c) determining a total input colorant amount by combining...

...where the total input colorant amount exceeds the total colorant amount limit, determining depleted code **values** for each **color** channel such that the depleted code values produce substantially the input perceived color according to...

...defines the location of a pixel within the image, wherein the pixel possesses input code **values** representing **color** levels for each color channel coordinate, c. Each input code value is typically represented by ...

...that converts from the source image color space (typically RGB) to the corresponding printer code **values** (typically CMYK). The **color** correction transform is typically designed to determine a set of printer code values that can...

...functions 56 for each color channel. The colorant amount functions 56 relate the printer code **value** for a particular **color** channel to the corresponding colorant amount for that color channel. A determine total colorant amount...

...as tri-linear interpolation or tetrahedral interpolation is used to interpolate between the stored perceived **color values**. Alternatively, other types of models, such as polynomial models or matrix/LUT models, could also...

...colorimeter or a spectrophotometer. However, the device color model could also be based on predicted **color values** determined using an analytical model of the printer as will be known to one skilled...

...or more color channels, there will generally be many ways to make a particular perceived **color** using different code **value** combinations. For example, for the case of a CMYK printer it will generally be possible ...the objectionable artifacts that are associated with using too much colorant. A find depleted code **value** with small **color** difference step 76 is then used to find appropriate depleted code values d(x,y...

...constraint could be identified. One method to do this would be to define a reduced **color gamut** containing only those **colors** that can be produced within the colorant amount constraint, and then applying conventional gamut mapping...

...map the input perceived color to a modified perceived color that is within the reduced **color gamut**.

For cases where the total colorant amount for at least one member of the set...

...d(x,y,c) by minimizing a cost function responsive to one or more cost **attributes**.

The **colorant** reduction process that has been described heretofore can be applied to an input digital image...

...is achievable within the total colorant amount limit when all of the candidate depleted code **values** have a total **colorant** amount greater than the total colorant amount limit; and

iii) determining depleted code **values** for each **color** channel such that the depleted code values produce substantially the modified perceived color and wherein...

...CLAIMS limit, comprising the steps of:

- a) determining an input perceived color corresponding to the input code **values** using a device **color** model;
- b) determining an input colorant amount for each color channel in response to the corresponding input code **value** and a **colorant** amount function that relates the input code **value** to the **colorant** amount for the corresponding color channel;
- c) determining a total input colorant amount by combining...

...where the total input colorant amount exceeds the total colorant amount limit, determining depleted code **values** for each **color** channel such that the depleted code values produce substantially the input perceived color according to...

...limit; and

- ii) selecting the depleted code values from the set of candidate depleted code **values**.

10. A **colorant** reduction transform for modifying an input digital image having an (x,y) array of image...

...performs the steps of:

- a) determining an input perceived color corresponding to the input code **values** using a device **color** model;
- b) determining an input colorant amount for each color channel in response to the corresponding input code **value** and a **colorant** amount function that relates the input code **value** to the **colorant** amount for the corresponding color channel;
- c) determining a total input colorant amount by combining...

...where the total input colorant amount exceeds the total colorant amount limit, determining depleted code **values** for each **color** channel such that the depleted code values produce substantially the input perceived color according to...

22/3,K/2 (Item 2 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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01730998

Reflection media for scannable information system
Reflektionsmittel für abtastbares Informationssystem
Moyen de réflexion pour système d'information à balayage
 PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
 14650, (US), (Applicant designated States: all)

INVENTOR:

Kaminsky, Cheryl J., c/o Eastman Kodak Company, Patent Legal Staff, 343
 State Street, Rochester, New York 14650-2201, (US)

Bourdelaïs, Robert P., c/o Eastman Kodak Company, Patent Legal Staff,
 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A,
Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)
PATENT (CC, No, Kind, Date): EP 1418526 A2 040512 (Basic)
APPLICATION (CC, No, Date): EP 2003078227 031013;
PRIORITY (CC, No, Date): US 279584 021024
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: G06K-001/12
ABSTRACT WORD COUNT: 30
NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200420	254
SPEC A	(English)	200420	13636
Total word count - document A			13890
Total word count - document B			0
Total word count - documents A + B			13890

INVENTOR:

... US)

Bourdelaais,Robert P., c/o Eastman Kodak Company ...

INTERNATIONAL PATENT CLASS: G06K-001/12

...SPECIFICATION DRL yields saturated, truer colors and an ability to replicate more of the Pantone(R) color space. The primary requirement is that the DRL is compatible with the colorant which it will be imaged so as to yield the desirable color gamut and density.

The polymer layer that is an UV curable polymer is preferred. The UV...

...dye have excellent color reproduction and color stability. They are able to create a large color gamut and saturation. Furthermore, they are easily incorporated into extrusions and coatings of the polymer layer...

...dye have excellent color reproduction and color stability. They are able to create a large color gamut and saturation. Furthermore, they are easily incorporated into extrusions and coatings of the polymer layer...

22/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01400186

Pixels and invisible data stored together on hard-copy medium

Bildpunkte und unsichtbare Daten, die zusammen auf ein Tragematerial gedruckt sind

Points d'image et donnees invisibles imprimes ensemble sur support

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Proprietor designated states: all)

INVENTOR:

Cok, Ronald S., Eastman Kodak Company, 343 State Street, Rochester, New
York 14650-2201, (US)

Bryant, Robert C. , Eastman Kodak Company, 343 State Street, Rochester,
New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A,
Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)
PATENT (CC, No, Kind, Date): EP 1184806 A1 020306 (Basic)
EP 1184806 B1 031210

APPLICATION (CC, No, Date): EP 2001203136 010817;

PRIORITY (CC, No, Date): US 650198 000829

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06K-019/06

ABSTRACT WORD COUNT: 40

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200210	424
CLAIMS B	(English)	200350	385
CLAIMS B	(German)	200350	401
CLAIMS B	(French)	200350	419
SPEC A	(English)	200210	3434
SPEC B	(English)	200350	3517
Total word count - document A			3859
Total word count - document B			4722
Total word count - documents A + B			8581

INVENTOR:

... US)

Bryant, Robert C ...

INTERNATIONAL PATENT CLASS: G06K-019/06

...SPECIFICATION per-pixel information such as scene distance from capture device, pixel differences from other images, **color** /exposure **attributes** , or object classification information. This information can be captured or calculated in a variety of...

...incapable of storing all of the image information (for example, a restricted dynamic range or **color gamut**). The additional pixel information might represent the difference between the recorded image and the original...

...or otherwise classified such as foreground and background, flash highlighted, in gamut or out of **gamut colors** , original or later added special effect, etc. This object classification information might then be stored...

...the image. The constrained image can be constrained for example in resolution, dynamic range, or **color gamut** .

In general, the invisible data values associated with each pixel must encode some pertinent information...

...SPECIFICATION per-pixel information such as scene distance from capture device, pixel differences from other images, **color** /exposure **attributes** , or object classification information. This information can be captured or calculated in a variety of...

...incapable of storing all of the image information (for example, a restricted dynamic range or **color gamut**). The additional pixel information might represent the difference between the recorded image and the original...

...or otherwise classified such as foreground and background, flash highlighted, in gamut or out of **gamut colors** , original or later added special effect, etc. This object classification information might then be stored...

...the image. The constrained image can be constrained for example in resolution, dynamic range, or **color gamut** .

In general, the invisible data values associated with each pixel must encode some pertinent information...

...CLAIMS stereo pair.

12. The article claimed in Claim 1, wherein the invisible information is an **attribute** of the **color** or exposure of the elements.

13. The article claimed in Claim 1, wherein the visible...

...dynamic range.

16. The article claimed in Claim 11, wherein the image is constrained in **color gamut** .

17. The article claimed in Claim 1, wherein the invisible information is detectable in the...

...CLAIMS stereo pair.

12. The article claimed in Claim 1, wherein the invisible information is an **attribute** of the **color** or exposure of the pixels.

13. The article claimed in Claim 1, wherein the visible...

?

26/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01599249

A color negative element intended for scanning

Zur Abtastung geeigneter negatives Farbelement

Un element negatif couleur destine au balayage

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Sowinski, Allan Francis, c/o Eastman Kodak Company, Patent Legal Staff,
343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 1324127 A1 030702 (Basic)

APPLICATION (CC, No, Date): EP 2002080080 021209;

PRIORITY (CC, No, Date): US 28135 011220

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: G03C-007/30

ABSTRACT WORD COUNT: 200

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200327	522
SPEC A	(English)	200327	30387
Total word count - document A			30909
Total word count - document B			0
Total word count - documents A + B			30909

...SPECIFICATION An example of such a suitable, contemporary
device-dependent color space is sRGB. If a **limited gamut color -
encoding** medium is used, the possible loss of recorded scene data may be
ameliorated by the...

26/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01594545

A method of developing a color negative element suitable for scanning

**Verfahren zur Entwicklung von Farb-negativelementen welche zum scannen
geeignet sind**

**Procede de developpement d'un element negatif couleur apte pour un balayage
optique**

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Arcus, Robert Alexander, c/o Eastman Kodak Company, 343 State Street,
Rochester, New York 14650-2201, (US)

Sowinski, Allan Francis, c/o Eastman Kodak Company, 343 State Street,
Rochester, New York 14650-2201, (US)

Wildman, Nigel Richard, c/o Eastman Kodak Company, 343 State Street,
Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)
PATENT (CC, No, Kind, Date): EP 1321814 A1 030625 (Basic)
APPLICATION (CC, No, Date): EP 2002080083 021209;
PRIORITY (CC, No, Date): US 27724 011220
DESIGNATED STATES: DE; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO
INTERNATIONAL PATENT CLASS: G03C-007/42
ABSTRACT WORD COUNT: 340

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200326	761
SPEC A	(English)	200326	30529
Total word count - document A			31290
Total word count - document B			0
Total word count - documents A + B			31290

...SPECIFICATION An example of such a suitable, contemporary
device-dependent color space is sRGB. If a **limited gamut color -
encoding** medium is used, the possible loss of recorded scene data may be
ameliorated by the...

26/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01570288

**IMAGE SIGNAL PROCESSING METHOD AND IMAGE SIGNAL PROCESSING APPARATUS
BILDSIGNALVERARBEITUNGSVERFAHREN UND BILDSIGNALVERARBEITUNGSVORRICHTUNG
PROCEDE DE TRAITEMENT DE SIGNAL IMAGE ET DISPOSITIF DE TRAITEMENT DE SIGNAL
IMAGE**

PATENT ASSIGNEE:

Sony Corporation, (214028), 7-35, Kitashinagawa 6-chome, Shinagawa-ku,
Tokyo 141-0001, (JP), (Applicant designated States: all)

INVENTOR:

ISHIGAMI, Koichiro, SONY CORPORATION, 7-35, Kitashinagawa 6-chome,
Shinagawa-ku, Tokyo 141-0001, (JP)

LEGAL REPRESENTATIVE:

Pilch, Adam John Michael et al (50481), D. YOUNG & CO., 21 New Fetter
Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 1427183 A1 040609 (Basic)
WO 2003017642 030227

APPLICATION (CC, No, Date): EP 2002755882 020808; WO 2002JP8140 020808

PRIORITY (CC, No, Date): JP 2001248210 010817

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/60; H04N-001/46; G06T-001/00

ABSTRACT WORD COUNT: 138

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200424	954
SPEC A	(English)	200424	4085
Total word count - document A			5039

Total word count - document B 0
Total word count - documents A + B 5039

...SPECIFICATION are now able to make substantially common interpretation.
However, the color gamut reproducible with a **printer** is locally wider
than the **color gamut limited** with the **encoding** of the sRGB color
space, such that, if a printer receives signals encoded with sRGB...

26/3,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01433472

Method for recording a digital image and information pertaining to such
image on an oriented polymer medium
Verfahren zur Aufzeichnung eines digitalen Bildes und dessen Information
auf einem orientiertem Polymermaterial
Procede d'enregistrement d'une image numerique avec des informations en
relation avec cette image sur un materiau polymere oriente

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
14650-2201, (US), (Applicant designated States: all)

INVENTOR:

Wexler, Ronald M., Eastman Kodak Company, 343 State Street, Rochester,
New York 14650-2201, (US)
Bourdelaïs, Robert P., Eastman Kodak Company, 343 State Street,
Rochester, New York 14650-2201, (US)
Spaulding, Kevin E., Eastman Kodak Company, 343 State Street, Rochester,
New York 14650-2201, (US)
Bryant, Robert C., Eastman Kodak Company, 343 State Street, Rochester,
New York 14650-2201, (US)
Summers, Drew D., Eastman Kodak Company, 343 State Street, Rochester, New
York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)
PATENT (CC, No, Kind, Date): EP 1213613 A2 020612 (Basic)
EP 1213613 A3 040506

APPLICATION (CC, No, Date): EP 2001204463 011122;

PRIORITY (CC, No, Date): US 730217 001205

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G03C-011/02; H04N-001/60

ABSTRACT WORD COUNT: 135

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200224	541
SPEC A	(English)	200224	12326
Total word count - document A			12867
Total word count - document B			0
Total word count - documents A + B			12867

...SPECIFICATION residual image 26 representing the difference between the
extended color gamut digital image and the **limited** color gamut digital

image. The residual image 26 is then **encoded** on the **limited color gamut** output print 24 using an encode residual image on output print step 27 to produce...the appropriate control signal values for the hard-copy printing device 23 corresponding to the **code values** of the **limited color gamut** digital image 22.

A compute residual image step 25 is used to determine a residual... color gamut digital image in reference color space 32. The residual image 36 is then **encoded** on the **limited color gamut** output print 24 using an encode residual image on output print step 37 to produce...

26/3,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01367800

Photofinishing method and apparatus

Fotobehandlungsverfahren

Procede de photofinissage

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Szajewski, Richard P., Eastman Kodak Company, 343 State Street,
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Sowinski, Allan Francis, Eastman Kodak Company, 343 State Street,
Rochester, New York 14650-2201, (US)
Buhr, John Douglas, Eastman Kodak Company, 343 State Street, Rochester,
New York 14650-2201, (US)
Woolfe, Geoffrey John, Eastman Kodak Company, 343 State Street,
Rochester, New York 14650-2201, (US)
Topfer, Karin, Eastman Kodak Company, 343 State Street, Rochester, New
York 14650-2201, (US)
Buitano, Lois A., Eastman Kodak Company, 343 State Street, Rochester, New
York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)
PATENT (CC, No, Kind, Date): EP 1164778 A2 011219 (Basic)
APPLICATION (CC, No, Date): EP 2001202088 010601;
PRIORITY (CC, No, Date): US 592816 000613; US 742553 001220
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04N-001/00; H04N-001/60
ABSTRACT WORD COUNT: 72
NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200151	1167
SPEC A	(English)	200151	21795
Total word count - document A			22962
Total word count - document B			0
Total word count - documents A + B			22962

...SPECIFICATION system. An example of a suitable, contemporary device-dependent color space is sRGB. If a **limited gamut color - encoding** medium is used, the possible loss of recorded scene data may be

ameliorated by the...

26/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01341108

Method for representing an extended color gamut digital image on a
hard-copy output medium

Verfahren zum Darstellen von digitalen Bildern mit erweitertem Farbbereich
auf Papier

Procédé pour représenter une image numérique en gamme étendue de couleur
sur support papier

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York
14650, (US), (Applicant designated States: all)

INVENTOR:

Bryant, Robert, EASTMAN KODAK LIMITED, Patent Legal Staff, 343 State
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Spaulding, Kevin E. EASTMAN KODAK LIMITED, Patent Legal Staff, 343 State
Street, Rochester, New York 14650-2201, (US)

Summers, Drew D., EASTMAN KODAK LIMITED, Patent Legal Staff, 343 State
Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 1146727 A2 011017 (Basic)

APPLICATION (CC, No, Date): EP 2001201024 010316;

PRIORITY (CC, No, Date): US 537064 000328

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200142	585
SPEC A	(English)	200142	5310
Total word count - document A			5895
Total word count - document B			0
Total word count - documents A + B			5895

...SPECIFICATION residual image 26 representing the difference between the
extended color gamut digital image and the **limited** color gamut digital
image. The residual image 26 is then **encoded** on the **limited color
gamut** output print 24 using an encode residual image on output print
step 27 to produce...the appropriate control signal values for the
hard-copy printing device 23 corresponding to the **code values** of the
limited color gamut digital image 22.

A compute residual image step 25 is used to determine a residual...
color gamut digital image in reference color space 32. The residual image
36 is then **encoded** on the **limited color gamut** output print 24
using an encode residual image on output print step 37 to produce...

26/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00972874

SYSTEM AND METHOD FOR IMAGE PROCESSING
SYSTEM UND VERFAHREN ZUR BILDVERARBEITUNG
SYSTEME DE TRAITEMENT D'IMAGE ET PROCEDE AFFERENT
PATENT ASSIGNEE:

Teknillinen Korkeakoulu, Viestintatekniikan Laboratorio, (2263843), P.O.
Box 6400, 02015 TKK, (FI), (Proprietor designated states: all)

INVENTOR:

SAARELMA, Hannu, Kalevankatu 40 A 3, FIN-00180 Helsinki, (FI)

LEGAL REPRESENTATIVE:

Simmelvuo, Markku Kalevi et al (82421), Papula Rein Lahtela Oy, P.O. Box
981, 00101 Helsinki, (FI)

PATENT (CC, No, Kind, Date): EP 946928 A1 991006 (Basic)
EP 946928 B1 030806
WO 98030974 980716

APPLICATION (CC, No, Date): EP 97947758 971218; WO 97FI809 971218

PRIORITY (CC, No, Date): FI 965106 961218

DESIGNATED STATES: BE; DE; ES; FR; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS: G06T-005/00; H04N-001/60

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; Finnish

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200332	531
CLAIMS B	(German)	200332	441
CLAIMS B	(French)	200332	564
SPEC B	(English)	200332	2074
Total word count - document A			0
Total word count - document B			3610
Total word count - documents A + B			3610

...SPECIFICATION be defined in terms of RGB or CMYK. The idea of hardware independence has been **extended** to decentralised **printing** systems in a data communication network environment, by defining profiles separately for each input device...

26/3,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00721732

Color printing method and apparatus using gamut mapping in munsell space
Verfahren und Vorrichtung zum Farbdruck unter Verwendung einer
Farbtonbereichsumsetzung im Munsell Farbraum
Procede et appareil pour l'impression en couleur avec conversion de gamme
dans un espace de couleur Munsell

PATENT ASSIGNEE:

Canon Information Systems, Inc., (1553870), 3188 Pullman Street, Costa
Mesa, CA 92626, (US), (Proprietor designated states: all)

INVENTOR:

Ruetz, Brigitte, 255 Lassen Drive, San Bruno, CA 94066, (US)

Alesii, Gesualdo, 2832 Castle Drive, San Jose, CA 95125, (US)

Kohler, Timothy L., 2434 Rock Street No. 16, Mountain View, CA 94043,
(US)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. High Holborn
2-5 Warwick Court, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 682440 A2 951115 (Basic)
EP 682440 A3 960306
EP 682440 B1 000913

APPLICATION (CC, No, Date): EP 95302174 950331;

PRIORITY (CC, No, Date): US 242234 940513

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 213

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200037	1265
CLAIMS B	(German)	200037	1263
CLAIMS B	(French)	200037	1501
SPEC B	(English)	200037	5498
Total word count - document A			0
Total word count - document B			9527
Total word count - documents A + B			9527

...ABSTRACT points of an extended gamut in CIELAB space are mapped into the Munsell space. The **extended** gamut comprises colors inside the **printer** gamut as well as colors outside the printer gamut, such as colors typically found in...

26/3,K/9 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00999278 **Image available**

INK JET PRINTING

IMPRESSION PAR JET D'ENCRE

Patent Applicant/Assignee:

E I DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington, DE
19898, US, US (Residence), US (Nationality), (For all designated states
except: US)

Patent Applicant/Inventor:

REDDING Martin E, 919 Glen Willow Road, Avondale, PA 19311, US, US
(Residence), US (Nationality), (Designated only for: US)

LOCKE John Stephen, 15 Robin Drive, Hockessin, DE 19707, US, US
(Residence), US (Nationality), (Designated only for: US)

STRUM Robert Clifton, 500 Dilworth Farm Lane, West Chester, PA 19382, US,
US (Residence), US (Nationality), (Designated only for: US)

LIANG Tony Z, 3 Lenape Court, Sewell, NJ 08080, US, US (Residence), US
(Nationality), (Designated only for: US)

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(Residence), US (Nationality), (Designated only for: US)

ANTON Waifong Liew, 6 Perth Drive, Wilmington, DE 19803, US, US
(Residence), US (Nationality), (Designated only for: US)

OMURA Hisanori, 168 Walnut Run Road, Landenburg, PA 19350, US, US
(Residence), JP (Nationality), (Designated only for: US)

Legal Representative:

LERMAN Bart E (agent), E.I. DUPONT DE NEMOURS AND COMPANY, Legal Patent
Records Center, 4417 Lancaster Pike, Wilmington, DE 19805, US,
Patent and Priority Information (Country, Number, Date):

Patent: WO 200329007 A2-A3 20030410 (WO 0329007)
Application: WO 2002US33308 20021004 (PCT/WO US0233308)
Priority Application: US 2001327119 20011004
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 10591
Fulltext Availability:
Detailed Description

Detailed Description
... speed of ink jet printers needs to be increased.

Another current disadvantage of ink jet **printing** is the **limited** amount of colorant and other solids an ink jet ink can contain. Ink jet printing...

26/3,K/10 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00816689 **Image available**
PACKAGED COLOR PHOTOGRAPHIC FILM COMPRISING A BLOCKED PHENYLENEDIAMINE DEVELOPING AGENT AND A METHOD FOR PROCESSING THE FILM
FILM PHOTOGRAPHIQUE COULEUR CONDITIONNE COMPORTANT UN AGENT DE DEVELOPPEMENT DE PHENYLENEDIAMINE INHIBE ET PROCEDE DE TRAITEMENT DE FILM

Patent Applicant/Assignee:
EASTMAN KODAK COMPANY, 343 State Street, Rochester, NY 14650, US, US
(Residence), US (Nationality)

Inventor(s):
IRVING Mark E, 1062 Penfield road, Rochester, NY 14625, US,
SZAJEWSKI Richard P, 68 Council Rock Avenue, Rochester, NY 14610, US,
IRVING Lyn Marie, 1062 Penfield Road, Rochester, NY 14525, US,

Legal Representative:
KONKOL Chris P (agent), 343 State Street, Rochester, NY 14650-2201, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200150195 A1 20010712 (WO 0150195)
Application: WO 2000US34791 20001220 (PCT/WO US0034791)
Priority Application: US 99475510 19991230

Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA CN IL IN JP KR MX NZ RU SG ZA
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 24693

Fulltext Availability:

Claims

Claim

... a remote location or locally written to a variety of output devices including, but not **limited** to, silver halide film or paper writers, thermal **printers**, electrophotographic **printers**, ink-jet printers, display monitors, CD disks, optical and magnetic electronic signal storage devices, and...

26/3,K/11 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00440510 **Image available**

SYSTEM AND METHOD FOR IMAGE PROCESSING

SYSTEME DE TRAITEMENT D'IMAGE ET PROCEDE AFFERENT

Patent Applicant/Assignee:

GRAAFISEN TEOLLISUUDEN TUTKIMUSAATIO,
SAARELMA Hannu,

Inventor(s):

SAARELMA Hannu,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9830974 A1 19980716

Application: WO 97FI809 19971218 (PCT/WO FI9700809)

Priority Application: FI 965106 19961218

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 2788

Fulltext Availability:

Detailed Description

Detailed Description

... be defined in

terms of RGB or CMYK. The idea of hardware independence has been **extended** to decentralised **printing** systems in a data communication network environment, by defining profiles separately for each input...

?

File 9:Business & Industry(R) Jul/1994-2004/Aug 18
(c) 2004 The Gale Group
File 15:ABI/Inform(R) 1971-2004/Aug 20
(c) 2004 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2004/Aug 20
(c) 2004 The Gale Group
File 20:Dialog Global Reporter 1997-2004/Aug 20
(c) 2004 The Dialog Corp.
File 47:Gale Group Magazine DB(TM) 1959-2004/Aug 20
(c) 2004 The Gale group
File 75:TGG Management Contents(R) 86-2004/Aug W2
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File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Aug 20
(c) 2004 The Gale Group
File 88:Gale Group Business A.R.T.S. 1976-2004/Aug 19
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File 98:General Sci Abs/Full-Text 1984-2004/Jul
(c) 2004 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Readers Guide 1983-2004/Jul
(c) 2004 The HW Wilson Co
File 148:Gale Group Trade & Industry DB 1976-2004/Aug 20
(c)2004 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2004/Aug 20
(c) 2004 The Gale Group
File 264:DIALOG Defense Newsletters 1989-2004/Aug 20
(c) 2004 The Dialog Corp.
File 484:Periodical Abs Plustext 1986-2004/Aug W2
(c) 2004 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Jul
(c) 2004 The HW Wilson Co
File 570:Gale Group MARS(R) 1984-2004/Aug 20
(c) 2004 The Gale Group
File 608:KR/T Bus.News. 1992-2004/Aug 20
(c)2004 Knight Ridder/Tribune Bus News
File 620:EIU:Viewswire 2004/Aug 19
(c) 2004 Economist Intelligence Unit
File 613:PR Newswire 1999-2004/Aug 20
(c) 2004 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Aug 20
(c) 2004 The Gale Group
File 623:Business Week 1985-2004/Aug 19
(c) 2004 The McGraw-Hill Companies Inc
File 624:McGraw-Hill Publications 1985-2004/Aug 19
(c) 2004 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2004/Aug 19
(c) 2004 San Jose Mercury News
File 635:Business Dateline(R) 1985-2004/Aug 20
(c) 2004 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2004/Aug 20
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File 647:CMP Computer Fulltext 1988-2004/Aug W2
(c) 2004 CMP Media, LLC
File 696:DIALOG Telecom. Newsletters 1995-2004/Aug 19
(c) 2004 The Dialog Corp.
File 674:Computer News Fulltext 1989-2004/Jul W4
(c) 2004 IDG Communications
File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 587:Jane's Defense&Aerospace 2004/Aug W1
(c) 2004 Jane's Information Group

Set	Items	Description
S1	47129	(COLOR? OR COLOUR?) (3N) (PARAMETER? OR GAMUT? OR VALUE?? OR ATTRIBUTE?? OR REQUIRE?)
S2	2112	(ADJUST OR CHANG? OR MODIF? OR ALTER? OR ADAPT?) (3N)S1
S3	1251	S1(3N) (DIFFERENCE? OR DIFFERENT OR RESIDUAL)
S4	10032632	IMAGE?? OR GRAPHIC?? OR PICTURE? OR PHOTO OR PHOTOS OR PHOTOGRAPH?
S5	1565444	PRINTER?? OR PRINTING
S6	2540	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) (3N)S1
S7	52624	WATERMARK? OR WATER()MARK?
S8	29	(STORE OR STORING OR SAVING OR KEEP?) (5N) (S2 OR S3)
S9	370	(EXTENDED OR LIMITED) (3N)S1
S10	781	AU=(WEXLER, R? OR BOURDELAIS, R? OR SPAULDING, K? OR BRYAN T, R? OR SUMMERS, D? OR WEXLER R? OR BOURDELAIS R? OR SPAULDING K? OR BRYAN R? OR SUMMERS D?)
S11	0	S6(S)S4(S)S7
S12	209	S4(S)S5(S)S6
S13	26	S12(S) (STORE OR STORING OR SAVING OR KEEP?)
S14	6	RD S13 (unique items)
S15	0	S1 AND S10
S16	8	S9(S) (STORE OR STORING OR SAVING OR KEEP?)
S17	8	S16 NOT S14
S18	8	RD S17 (unique items)
S19	7	S18 NOT POTATO
S20	7	RD S19 (unique items)

14/3,K/1 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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27338469

EPSON launches AcuLaser C900 and AcuLaser C1900

AME INFO - ME COMPANY NEWSWIRE

February 01, 2003

JOURNAL CODE: WMEC LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1048

... br>Customers no longer need to buy a second dedicated colour printer, and can still **keep** control of their costs, said Khalil El Dalu, General Manager, EPSON Middle East. The AcuLasers...

... of being able to add colour when required by replacing their current networked monochrome laser **printer**, with one of the AcuLasers, he added.

The AcuLaser C1900 and C900 share several features, like a resolution of 2400dpi using Advanced EPSON AcuLaser ASIC Colour technologies, ensuring **photo** -like quality for **pictures** and well-defined text, logos and **graphics**. The EPSON AcuLaser C1900 and C900 offer a print speed of 16ppm black and white...

... PC screen, optional automatic two-sided (duplex) unit, and flexible media capabilities

Both **printers** feature EPSON's new AcuLaser MicroPolymer Toner, which guarantees a high quality output with uniform...

... improves stability and quality, and helps to minimise toner wastage. Other performance features on both **printers** include flexible media capabilities. The AcuLaser C900 comes with a 200-sheet tray as standard...

... including envelopes, labels, transparencies and paper up to 163 g/m2 thick.

The **printers** have been designed to have simple maintenance with a simple paper path and all the...

...it has low running costs and it is as easy to use as a monochrome **printer**. The AcuLaser C900 range has been designed to work with all common Windows O.S...

...Adobe PostScript 3 (C).

Equally important to the performance of a colour laser **printer** is the power of its controller. The AcuLaser C1900 uses a combination of a 300MHz...

... enabled when the optional hard disk drive is added. Documents can be stored in the **printer** for later reprinting and selected from thumbnail **images** from a web browser.

The AcuLaser C1900 **printer** driver software offers flexible yet powerful functions: advanced users will appreciate the extensive options available...

... MP Tray, 500 Sheet Cassette, 10/100BaseTx Networking, AcuLaser C1900D - with Duplex unit (two sided **printing**) 96MB, 200 Sheet MP Tray, 500 Sheet Cassette, 10/100BaseTx Networking and the AcuLaser C1900WiFi **printers**, scanners, digital cameras, projectors and consumables. EPSON's inkjets are a breakthrough in innovative design...

... please call EPSON's Tollfree no. 8004707 (Dubai, UAE)
Product information and high resolution **images** are available on www.epson.co.uk/press

For further information, please contact...

14/3,K/2 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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03234991 SUPPLIER NUMBER: 07233578 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Minifinders.
MacUser, v5, n6, p257(1)
June, 1989
ISSN: 0884-0997 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 18848 LINE COUNT: 01529

... 88)
Colorizer adds pigments to the desktop and black-and-white applications. Also colors PICT **graphics** . System resources include **saving** and **printing** color screens. A useful novelty that'll run its course as developers **add color** to apps. **Requires** Mac II. \$49.95. Palomar Software, P.O. box 2635, Vista, CA 92083. NCP (Jan...

14/3,K/3 (Item 2 from file: 47)
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03150333 SUPPLIER NUMBER: 06804467 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Minifinders. (column)
MacUser, v4, n8, p266(21)
Aug, 1988
DOCUMENT TYPE: column ISSN: 0884-0997 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 20992 LINE COUNT: 01693

... 88)
Colorizer adds pigments to the desktop and black and white applications. Also colors PICT **graphics** . System resources include **saving** and **printing** color screens. A useful novelty that'll run its course as developers **add color** to apps. **Requires** Mac II. \$49.95. Palomar Software, PO Box 2635, Vista, CA 92083. NCP (Jan 88...

14/3,K/4 (Item 3 from file: 47)
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03083576 SUPPLIER NUMBER: 06504151 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Minifinders. (software for the Macintosh microcomputer) (buyers guide)
MacUser, v4, n5, p268(21)
May, 1988
DOCUMENT TYPE: buyers guide ISSN: 0884-0997 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 20565 LINE COUNT: 01661

... 88)
Colorizer adds pigments to the desktop and black and white applications. Also colors PICT **graphics** . System resources include **saving** and **printing** color screens. A useful novelty that'll run its course as developers **add color** to apps. **Requires** Mac II. \$49.95. Palomar Software, PO Box 2635, Vista, CA 92083. NCP (Jan 88...

14/3,K/5 (Item 4 from file: 47)

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03080573 SUPPLIER NUMBER: 06203260 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Minifinders. (software buyer's guide) (buyers guide)
MacUser, v4, n2, p296(18)
Feb, 1988
DOCUMENT TYPE: buyers guide ISSN: 0884-0997 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 17054 LINE COUNT: 01378

... 88)
Colorizer adds pigments to the desktop and black and white applications. Also colors PICT **graphics**. System resources include **saving** and **printing** color screens. A useful novelty that'll run its course as developers add **color** to apps. **Requires** Mac II. \$49.95. Palomar Software, PO Box 2635, Vista, CA 92083. NCP (Jan 88...

14/3,K/6 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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02792116 Supplier Number: 45664538 (USE FORMAT 7 FOR FULLTEXT)
PRIMAX LAUNCHES COLORMOBILE OFFICE SCANNER - MULTIPURPOSE COLOUR IMAGE SCANNER
M2 Presswire, pN/A
July 12, 1995
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 451

... PCs, portables and notebooks, as the scanner is simply plugged into a computer's parallel **printer** port. It can be used simply as a handscanner for fast, portable scanning to scan **images** from thickly-bound books or magazines. By attaching the motor module it becomes a motorised...

...The sheet feeding unit can be used to scan business cards, cheques, family and passport **photos** or to **store** employee ID badges.

Fred Wieringa, european product manager for scanners, comments: "The ColorMobile can scan...
?

20/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01568619 02-19608

Lean and mean

Gibbs, Mark

Network World v15n4 PP: S23-S24 Jan 26, 1998

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 1152

...TEXT: for images that use 256 or fewer distinct colors -- usually sufficient, since most monitors are **limited** to displaying 256 **colors** -- **storing** the RGB **values** for each pixel would be a waste of storage. So instead of **keeping** an RGB value for each pixel, a Color LookUp Table (CLUT) is stored in the...

20/3,K/2 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

14194090 SUPPLIER NUMBER: 81760882 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Cutting-edge consoles target the television: think a brand new computer is the most powerful high-tech present you could hope to give or get this holiday season? Microsoft, Nintendo, and Sony hope to give you another idea and in the process to change your opinion of what the word "computer" means. (cool technologies).

Dipert, Brian

EDN, 46, 28, 47(8)

Dec 20, 2001

ISSN: 0012-7515

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 5485 LINE COUNT: 00490

... the best NTSC televisions approach 480 lines of resolution, and their interlaced display modes and **limited color** depths and **gamuts** further ease the performance requirements of a video game console's graphics and video-playback...

20/3,K/3 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04552459 SUPPLIER NUMBER: 08369650 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Outlook on sales for 1990 in sheets, towels, blankets. (column)

Seidman, Seymour

HFD-The Weekly Home Furnishings Newspaper, v64, n15, p94(2)

April 9, 1990

DOCUMENT TYPE: column

ISSN: 0746-7885

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1483 LINE COUNT: 00108

... to a single retail trade but sell equally well everywhere, discount to department store. They **require limited color** range of two whites, a blue or a peach.

Average mill cost of 100 percent...

20/3,K/4 (Item 1 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)
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01580317

MicroMain Software, Inc , announced a new software product called **MicroMain Painter (TM)** , that provides a complete CICS screen painting and design facility for.

NEWS RELEASE December 15, 1986 p. 11

... features the ability to design CICS mainframe screens on IBM PC family (or compatibles) system, **store** , modify, save designs and generate the BNS code for use in the mainframe applications. MicroMain Painter (TM) creates 1005 complete BMS code including **extended attributes** , **color** and multiple map mapsets. The BMS source code is uploaded for a PC file for ...

20/3,K/5 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01170252 SUPPLIER NUMBER: 04792728
RTTY for the color computer.

Goodman, Marty
Rainbow, v6, n4, p36(3)
Nov, 1986

ISSN: 0746-4797 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: The program, though, only supports the lowest RTTY baoud rate, does not include features as **saving** to disk or transmission of previously-prepared files, but the source code is available to...

...Delphi. The program listing is provided, and a Tandy Color Computer with 16K RAM and **Extended Color Basic** is **required** .

20/3,K/6 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01085558 SUPPLIER NUMBER: 00560047
Adventure Generator - An Adventure In Creativity.

Boyle, K.
Rainbow, v3, n12, p231-232
July, 1984

DOCUMENT TYPE: evaluaton ISSN: 0746-4797 LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

ABSTRACT: Adventure Generator is a user-friendly, professional program for the TRS-80 **Color Computer**. It **requires Extended Color BASIC** and 32K. It assumes the user has some programming knowledge. The program will actually generate code for an Adventure program and **store** it to tape or disk as it is being written. It allows 100 rooms, thirty...

20/3,K/7 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2004 ProQuest. All rts. reserv.

04872974 SUPPLIER NUMBER: 59767875 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Realism today: Figures

Anonymous

American Artist (GAAR), v64 n699, p38-49, p.12

Oct 2000

ISSN: 0002-7375 JOURNAL CODE: GAAR

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3502

TEXT:

... a hat and bright blue scarf that established a striking frame around her face. Besides **keeping** the model warm in a room that was usually quite cold, the wraps helped the...

...Gerhartz. "I think an artist can say more in a painting when working within a **limited** range of **colors** and **values** ." When executing his powerful oil paintings, Gerhartz focuses on the abstract elements of his pictures...

?